

Reports on Surveys with R/V Dr. Fridtjof Nansen

ARCHIVO DE DATOS

PROSPECCIONES DE LOS RECURSOS
PESQUEROS DE LAS AREAS DE LA PLATA-
FORMA ENTRE SURINAME Y COLOMBIA 1988

Institute of Marine Research, Bergen



«Dr. Fridtjof Nansen»

The fishery research vessel «Dr. Fridtjof Nansen» belongs to the Norwegian Agency for Development Cooperation (NORAD). It was designed and built for scientific and exploratory investigations of fishery resources of developing countries, under a joint plan with the Fisheries Department of FAO.

A list of the vessels operational assignment from 1975 to 1987 is shown on the back cover.

The Institute of Marine Research, Bergen is under a subcontract with NORAD responsible for the operation of the vessel, and the various research programmes were planned and conducted jointly with FAO and the relevant fisheries research organizations in the countries concerned.

Results of the previous surveys have been presented in a number of cruise- and progress reports under each programme.

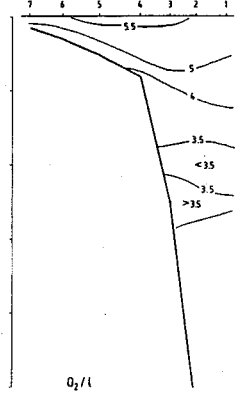
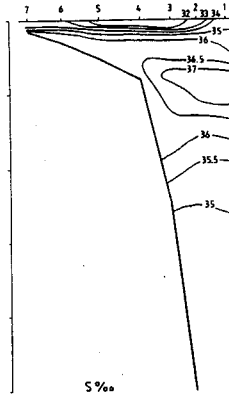
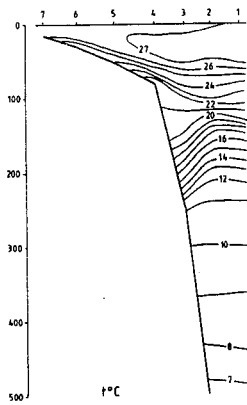
DATA FILE
ARCHIVO DE DATOS

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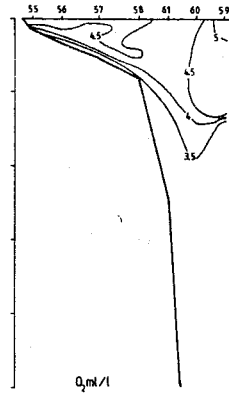
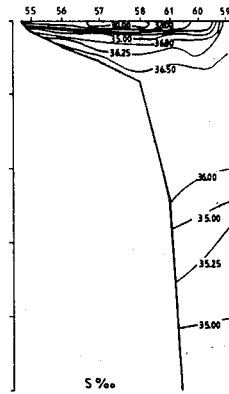
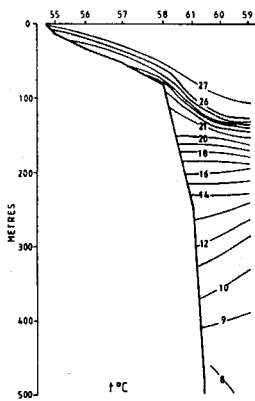
Annex 1. Hydrographic sections and surface temperatures.

Apendice 1. Perfiles hidrograficos y temperaturas de superficie.

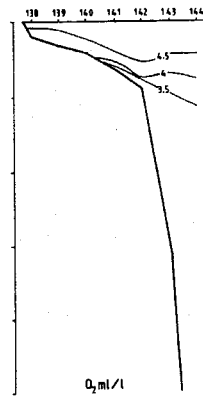
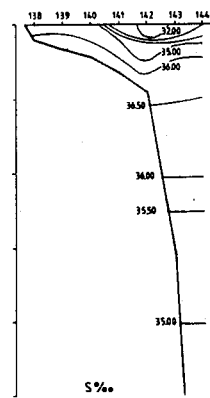
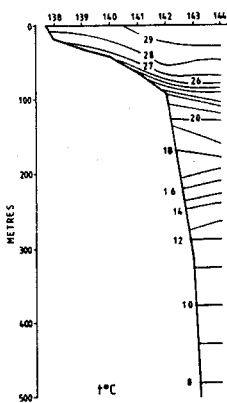
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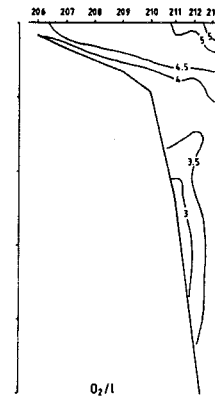
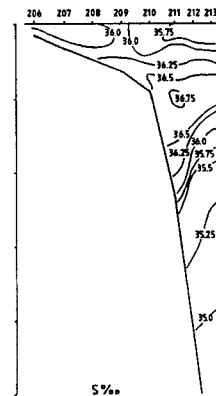
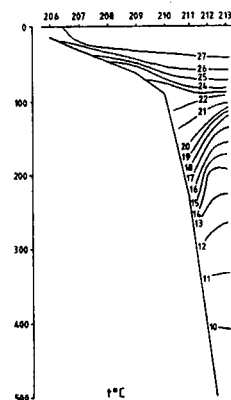
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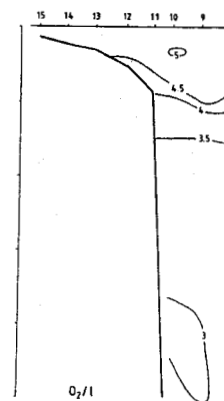
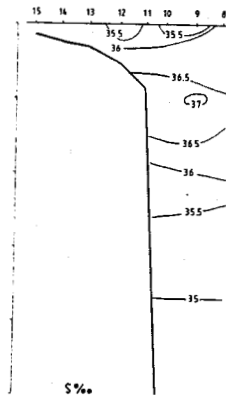
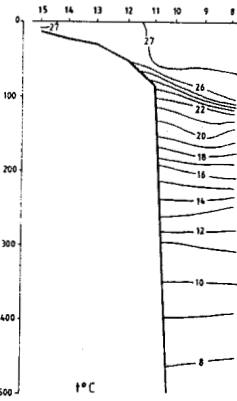


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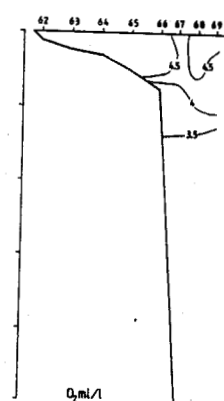
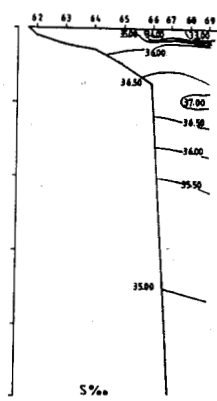
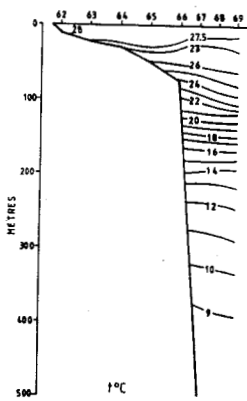


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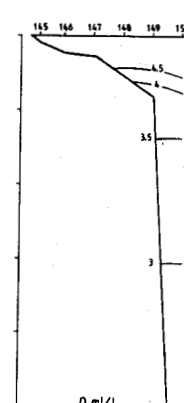
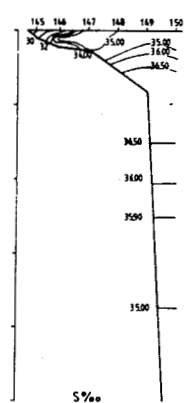
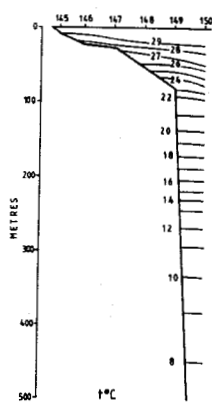
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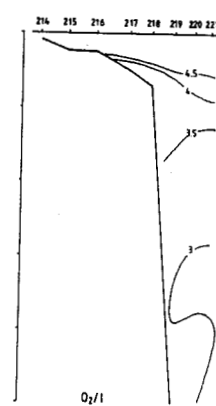
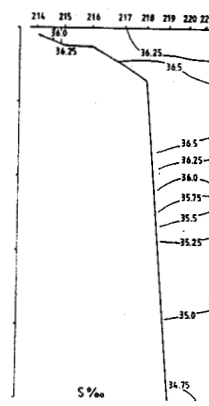
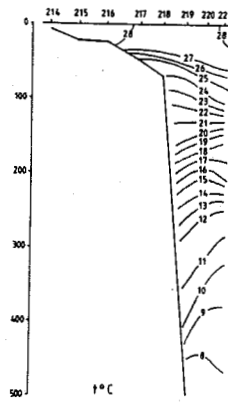
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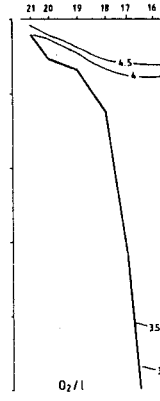
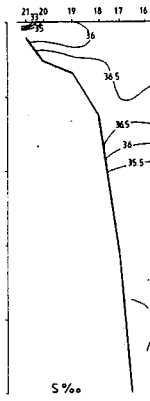
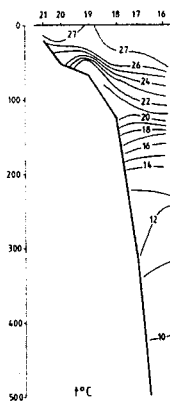
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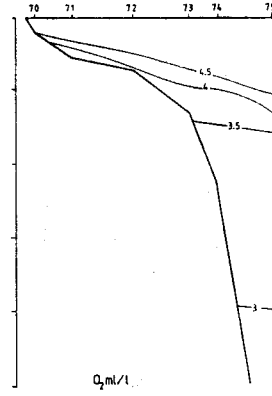
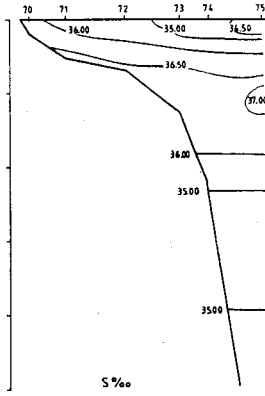
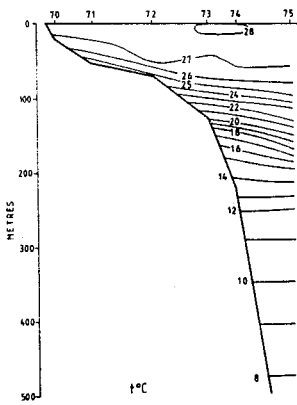
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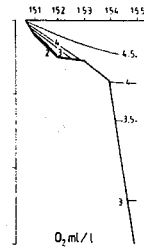
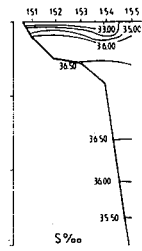
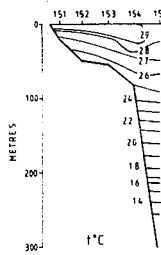
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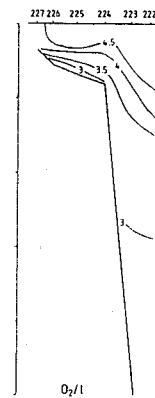
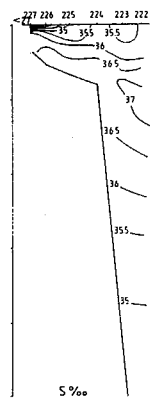
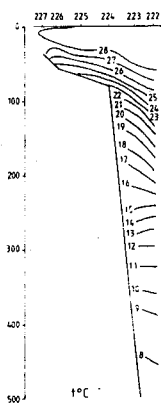
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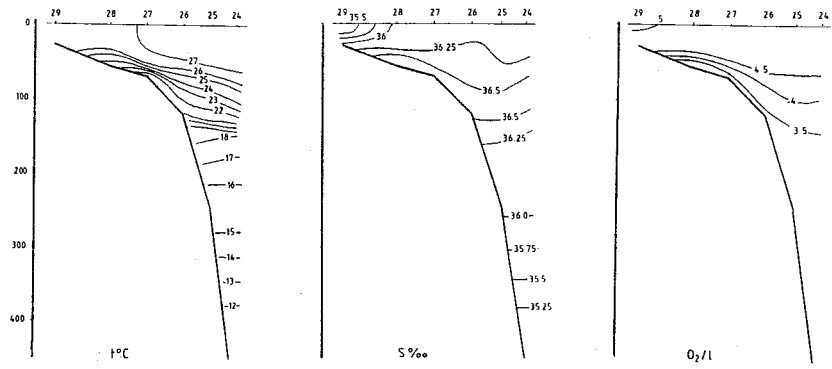
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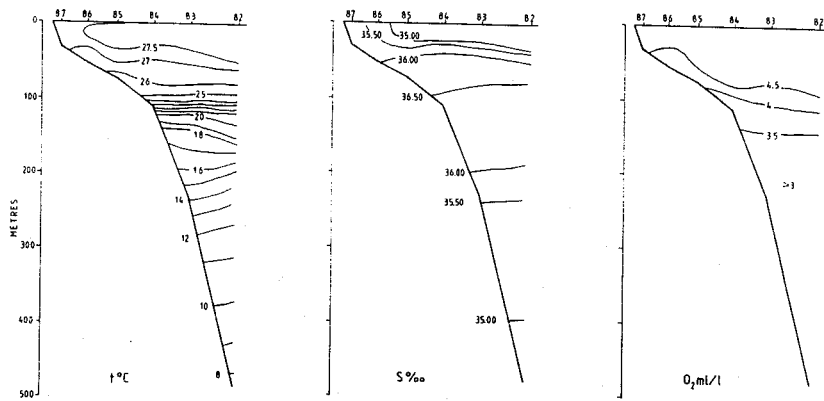
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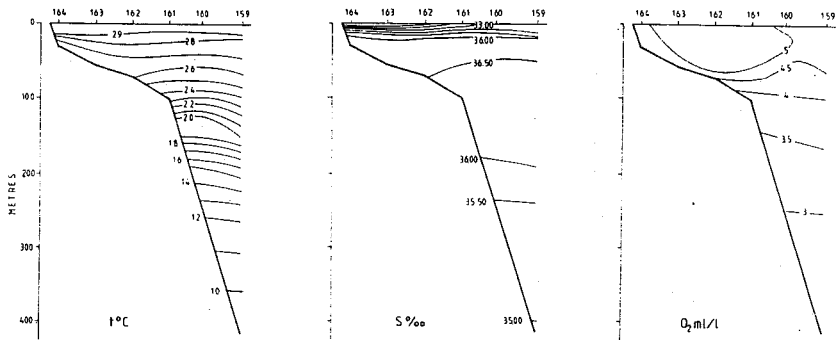
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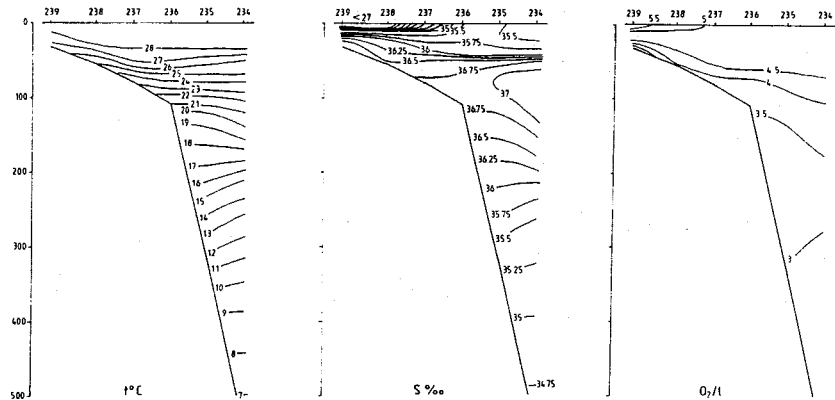
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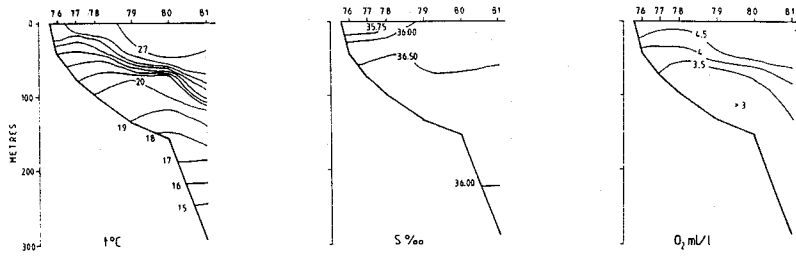


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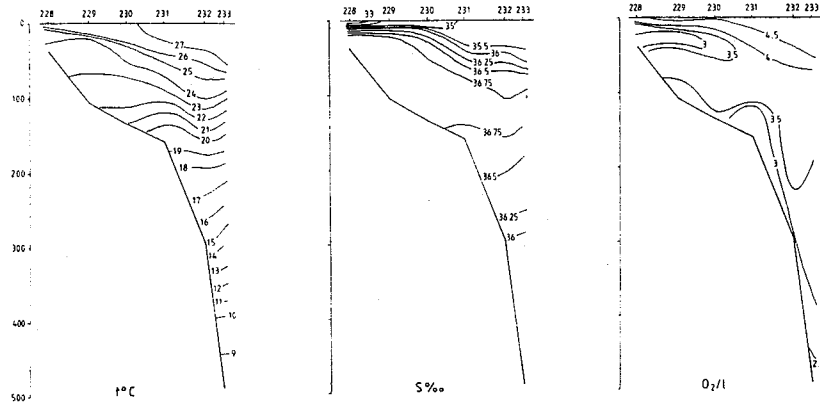


EAST OF TRINIDAD

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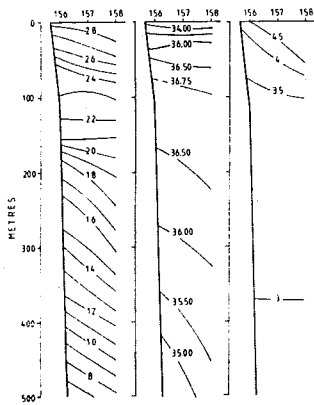


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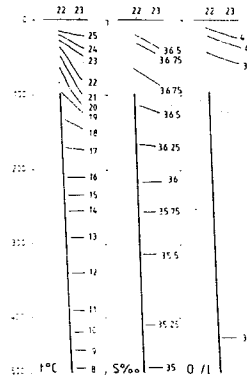


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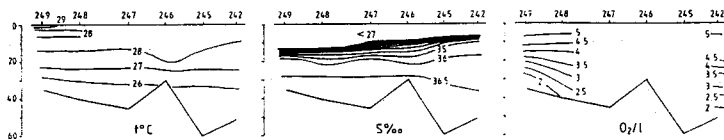


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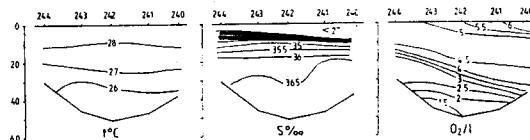
NORTH OF TOBAGO

SURVEY 4



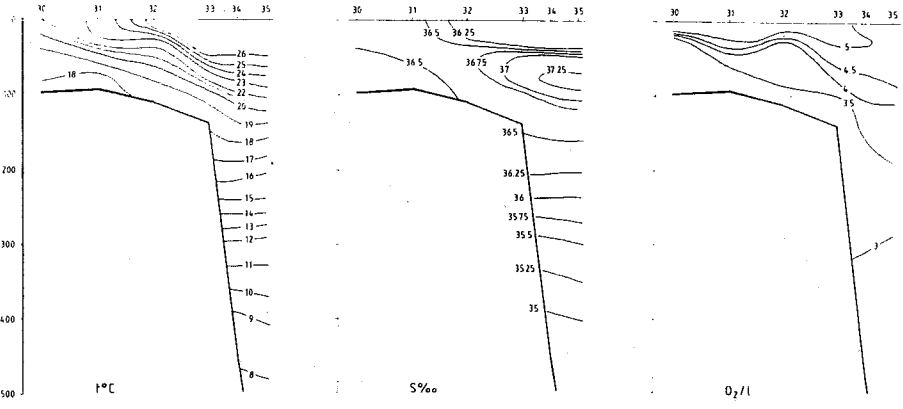
EAST - WEST COLOMBUS CHANNEL

SURVEY 4



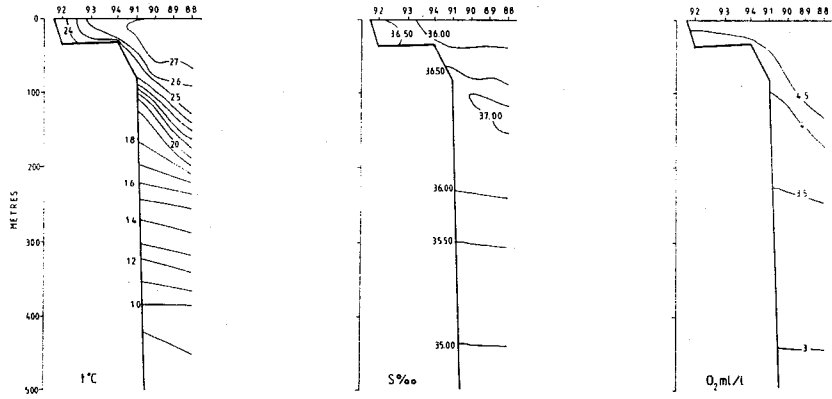
ORINOCO - GALEOTA

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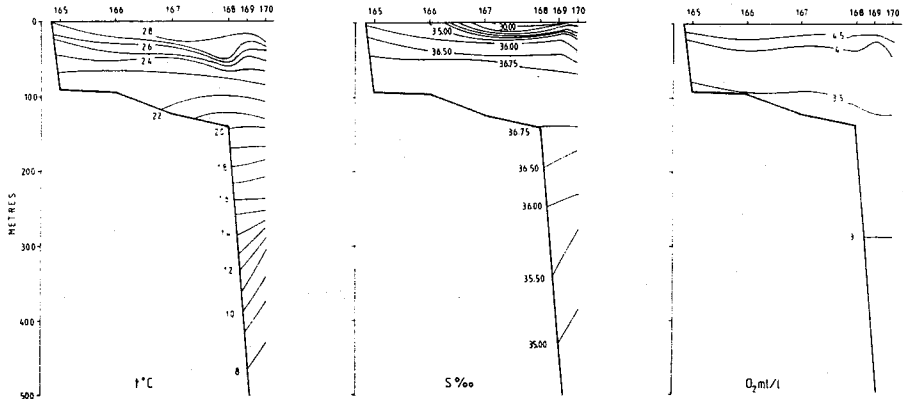
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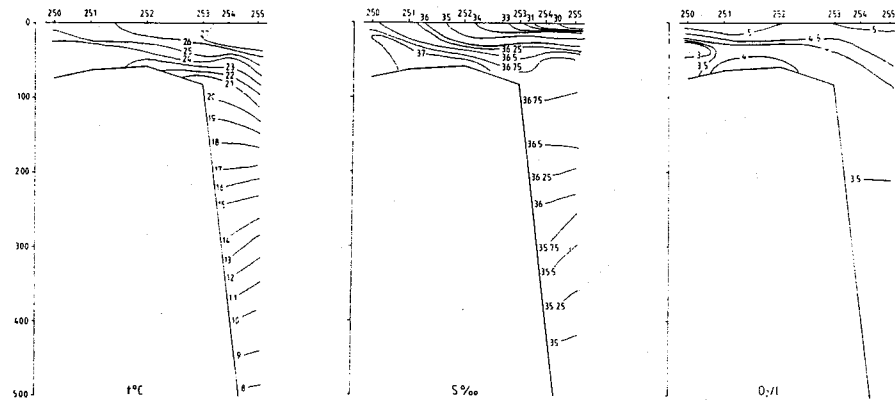
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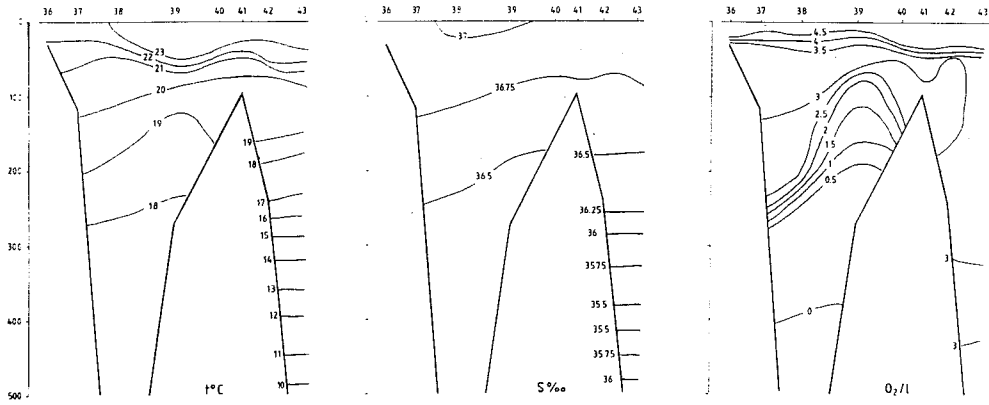
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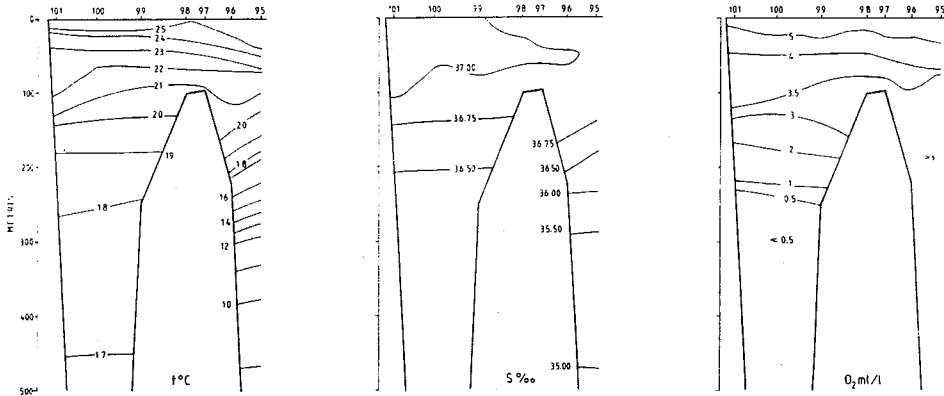
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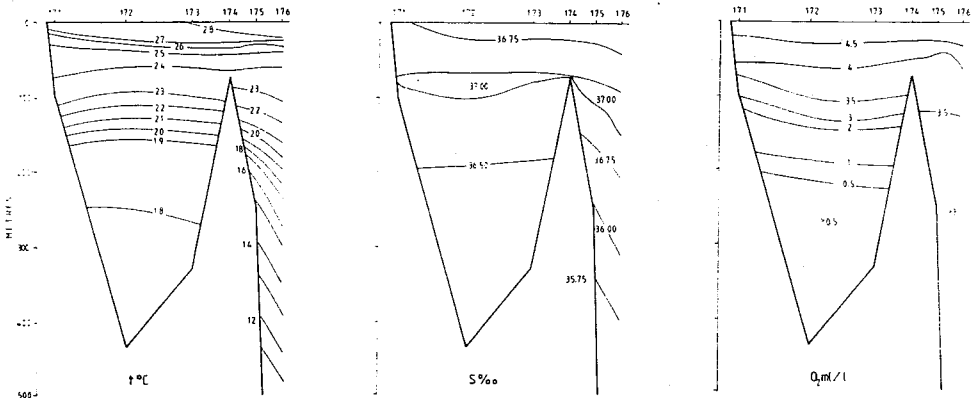
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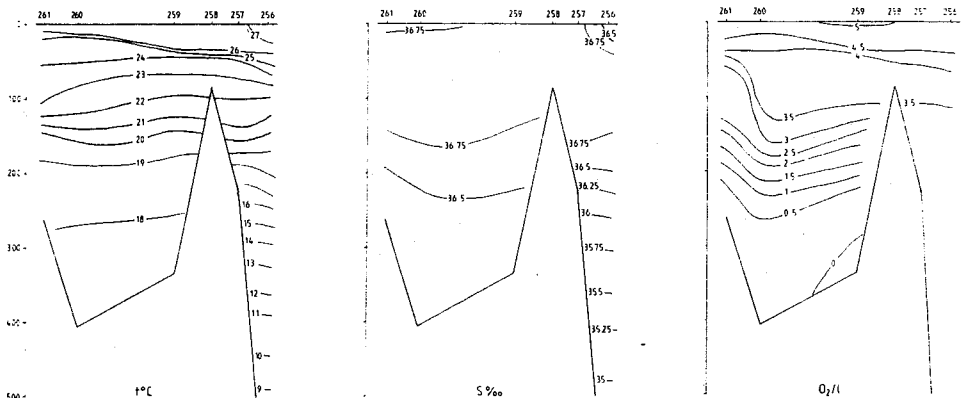
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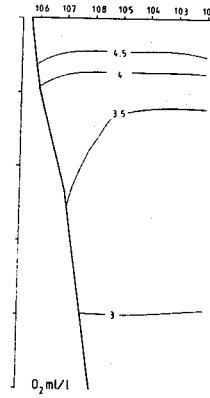
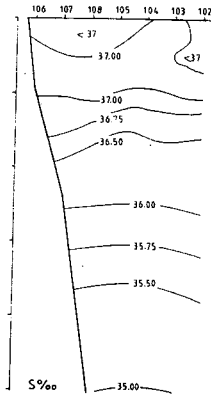
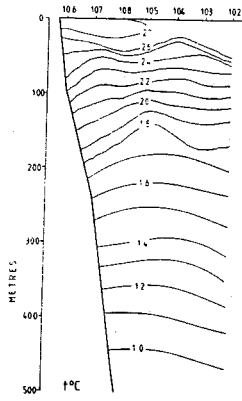
WEST OF ISLA MARGARITA

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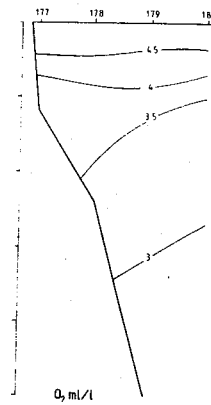
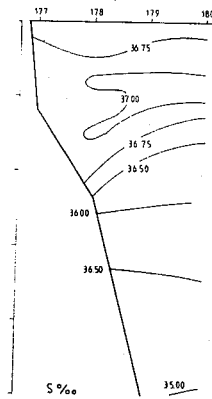
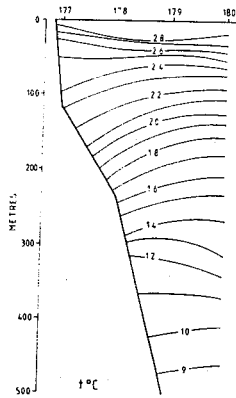
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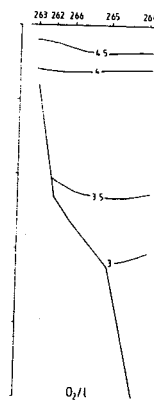
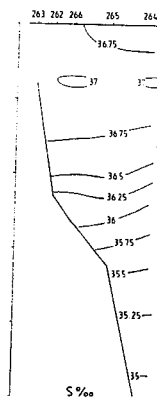
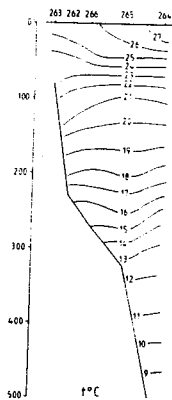
CABO CODERA

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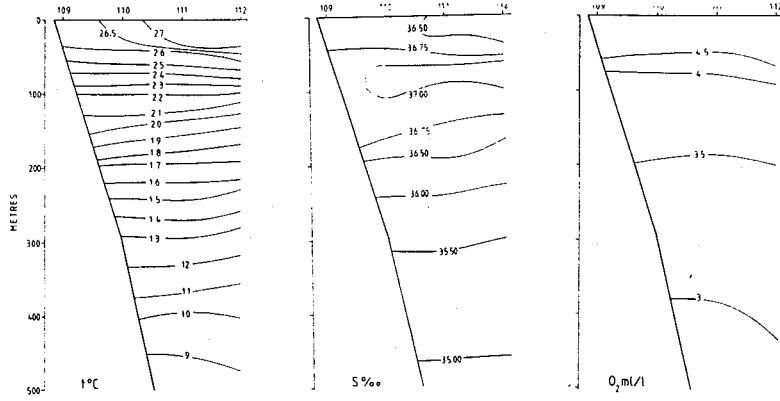
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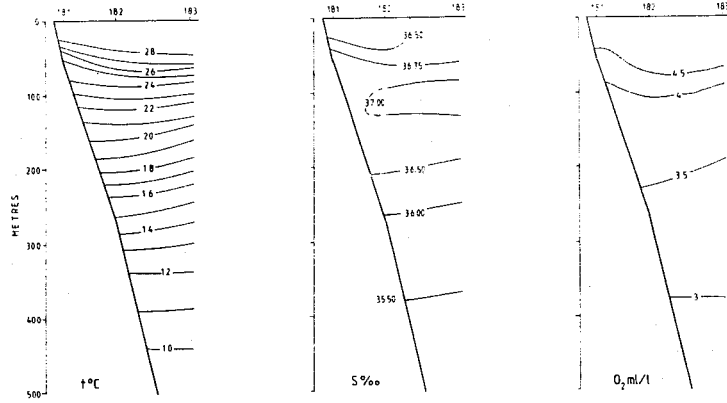


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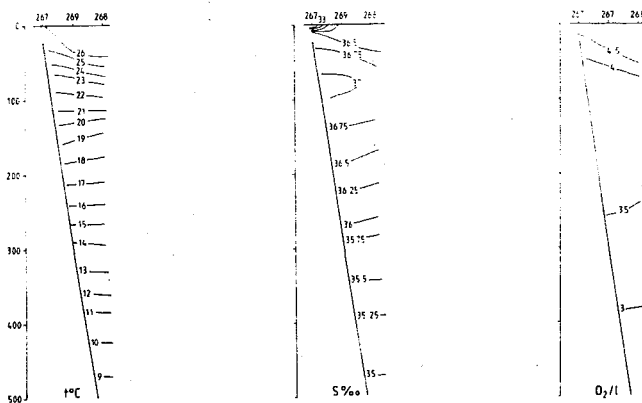
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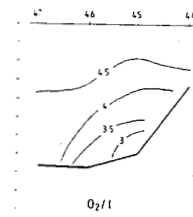
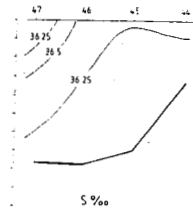
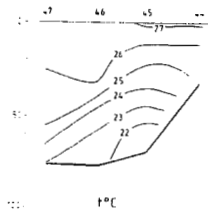


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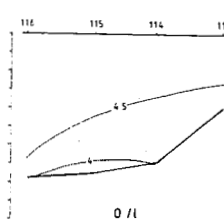
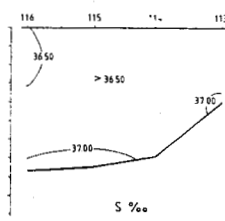
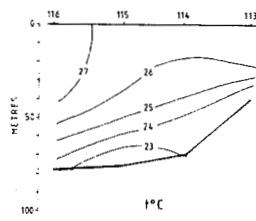


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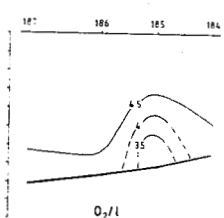
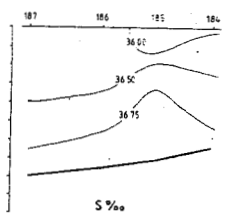
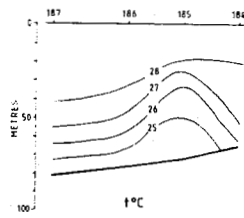
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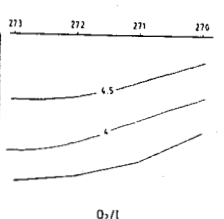
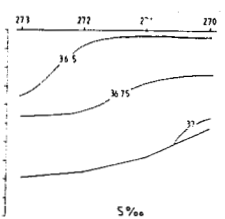
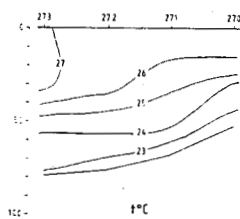
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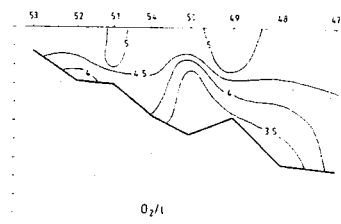
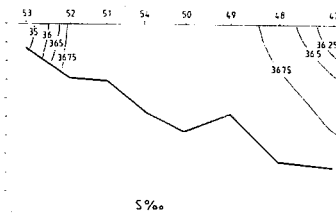
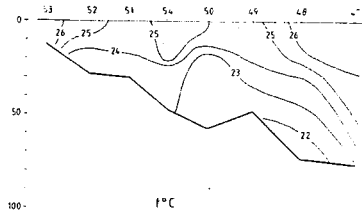


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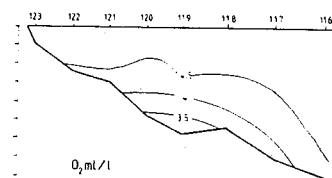
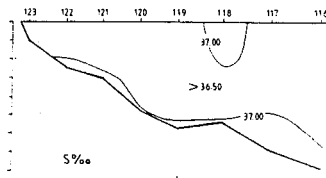
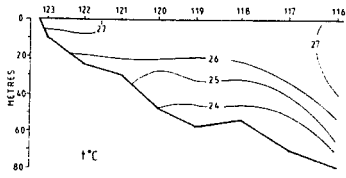


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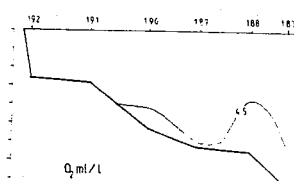
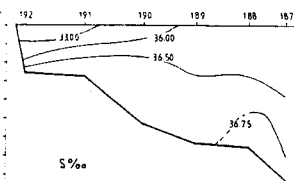
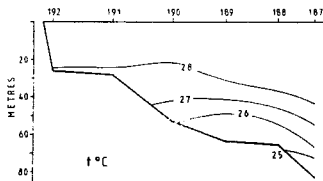
SURVEY 1



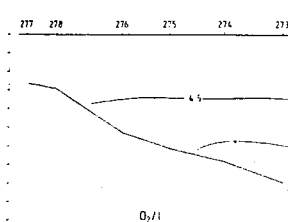
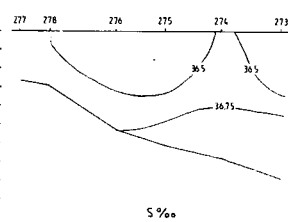
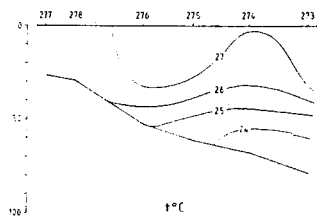
SURVEY 2



SURVEY 3

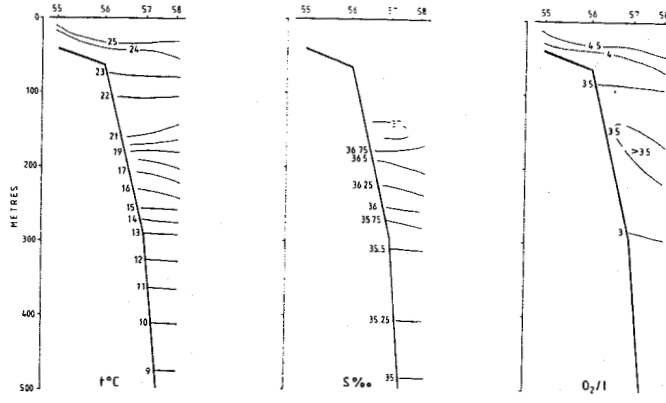


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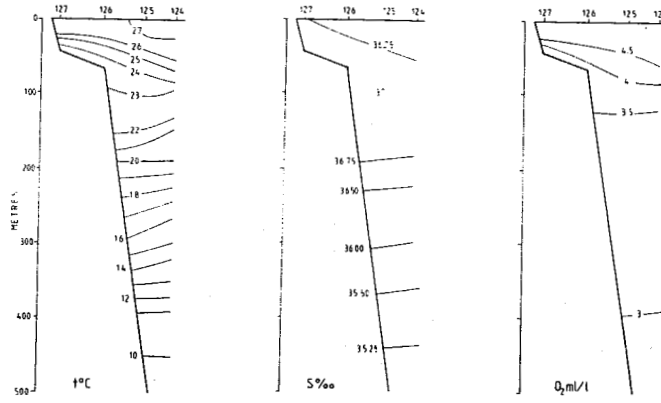


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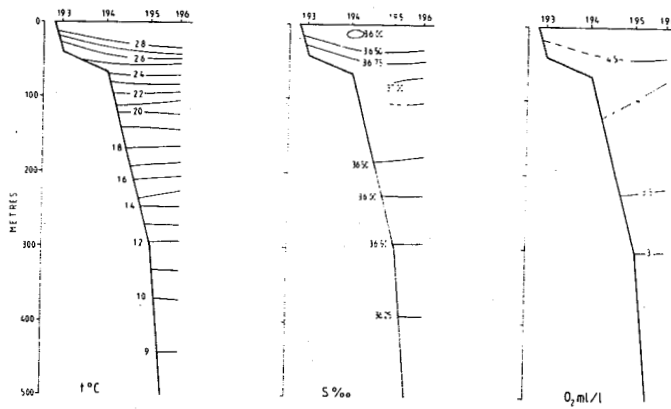
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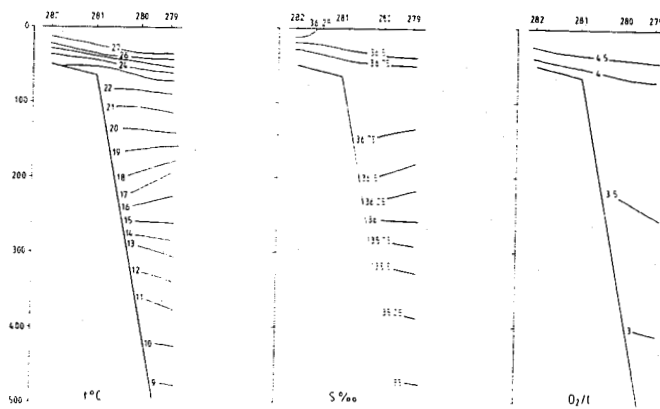
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SURVEY 3

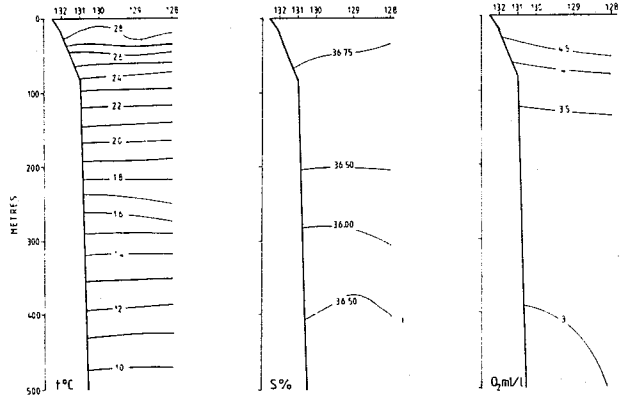


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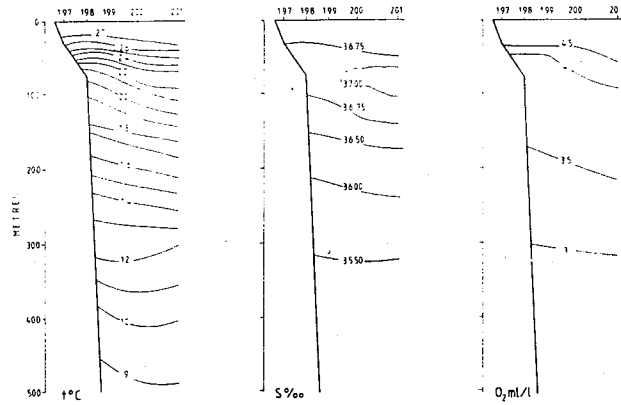


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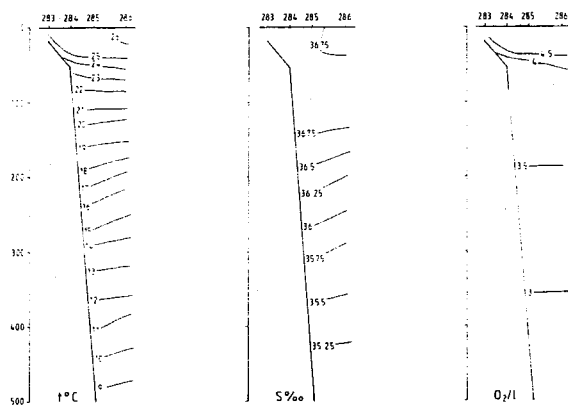
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SURVEY 3

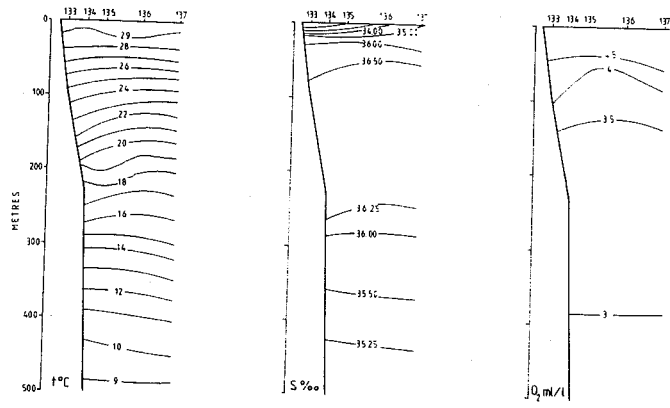


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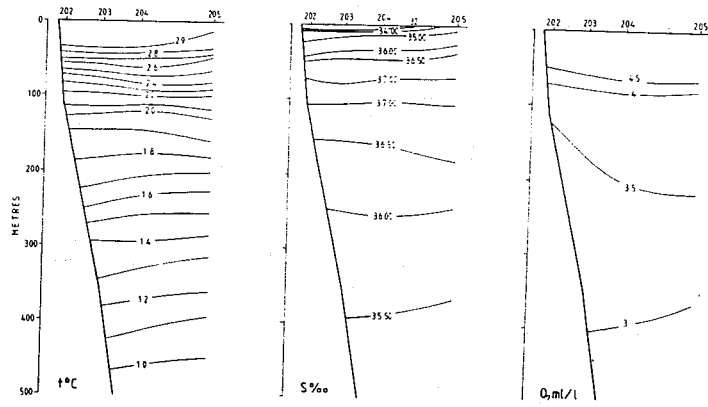


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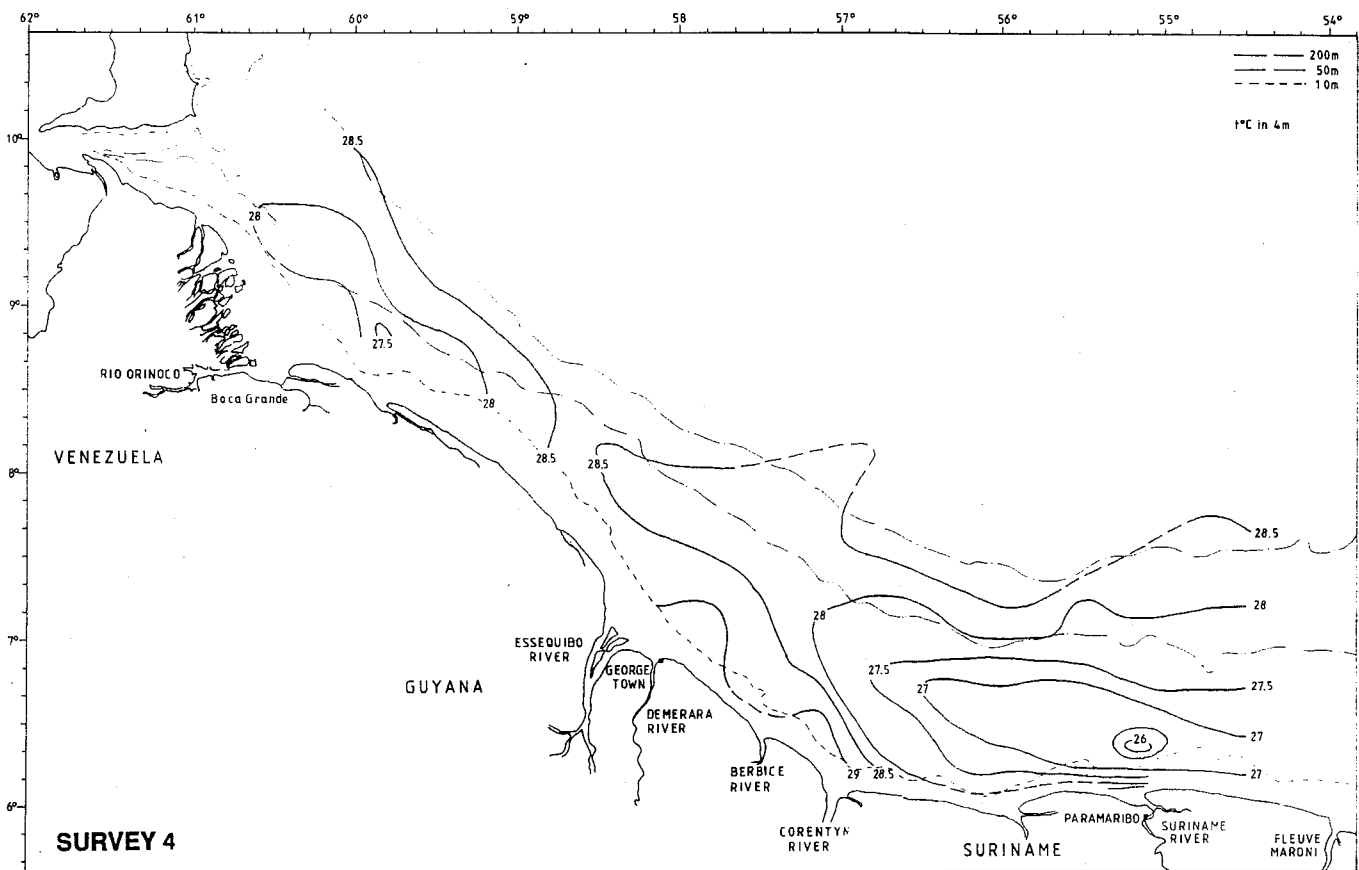
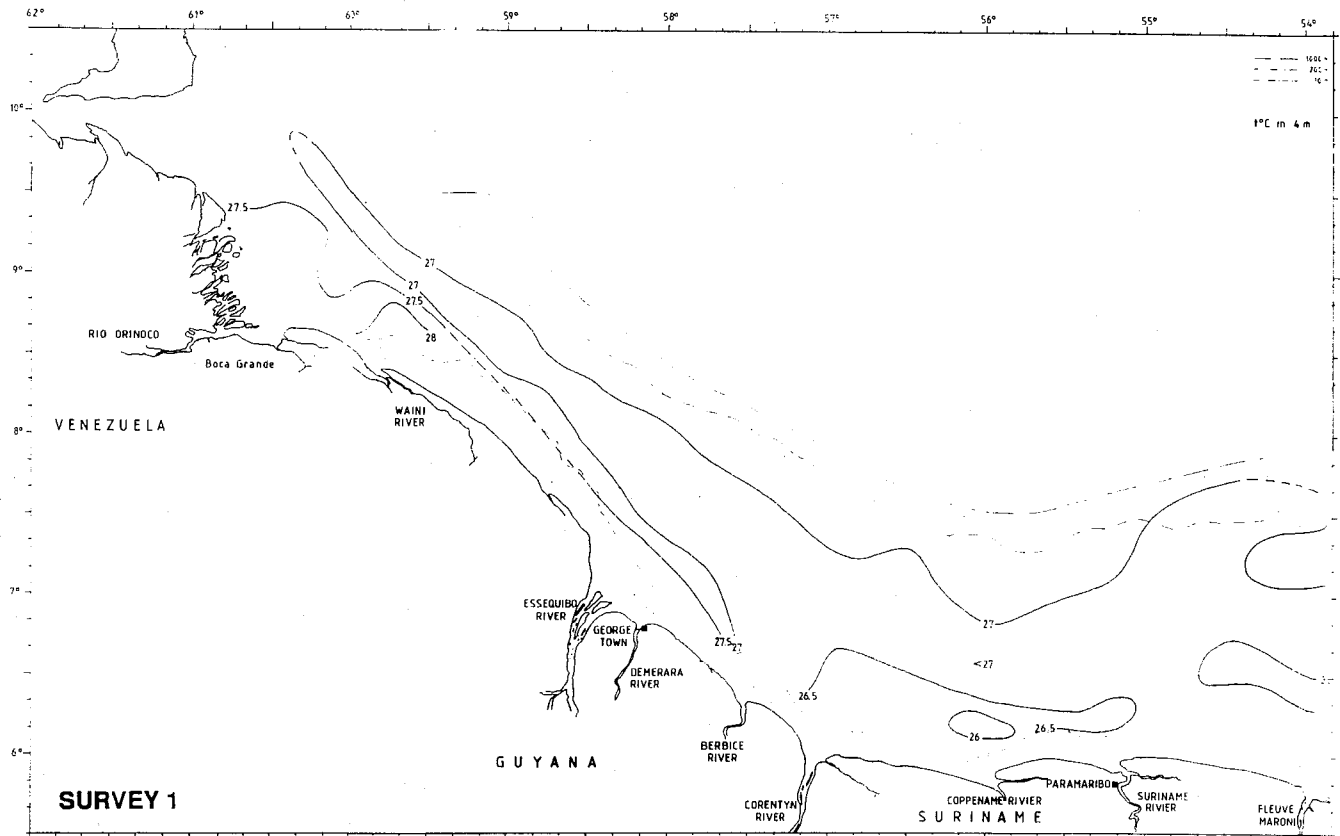
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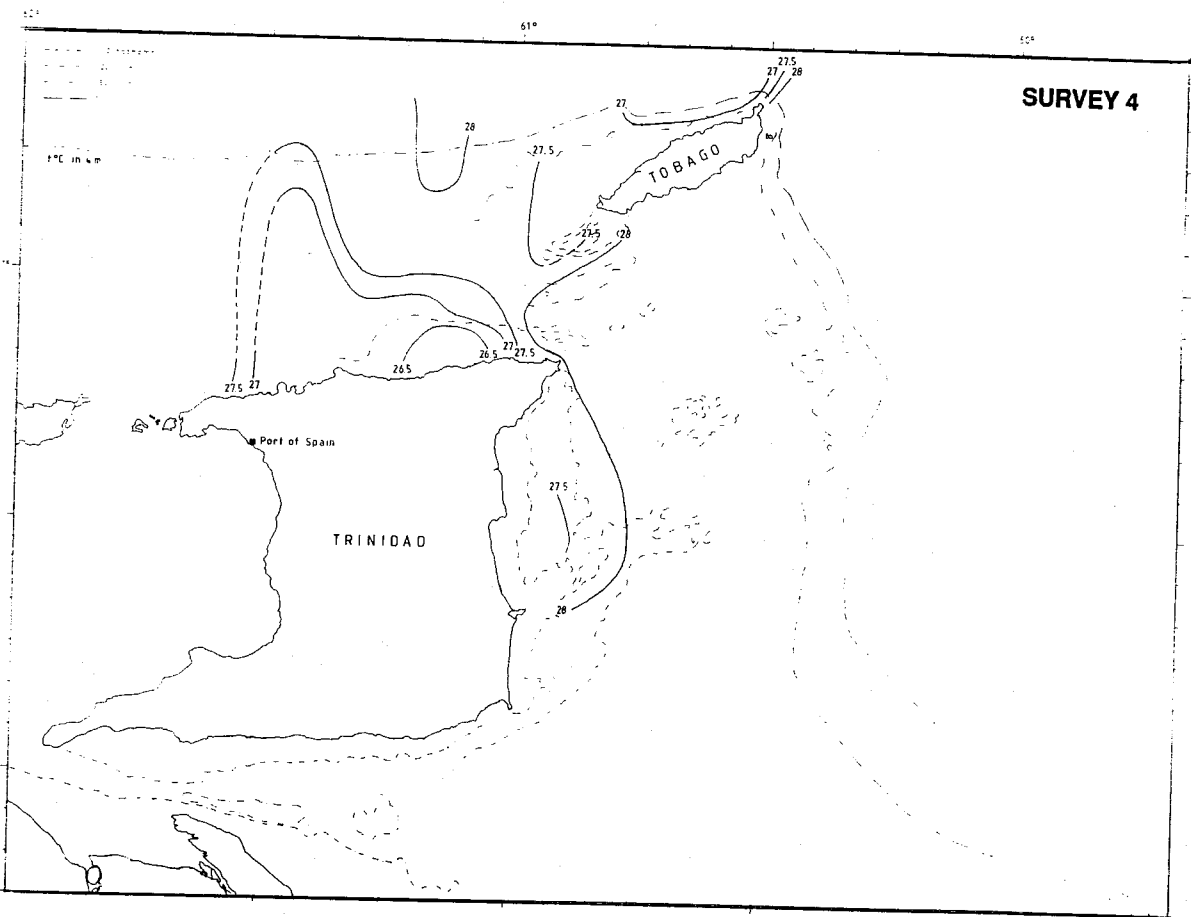


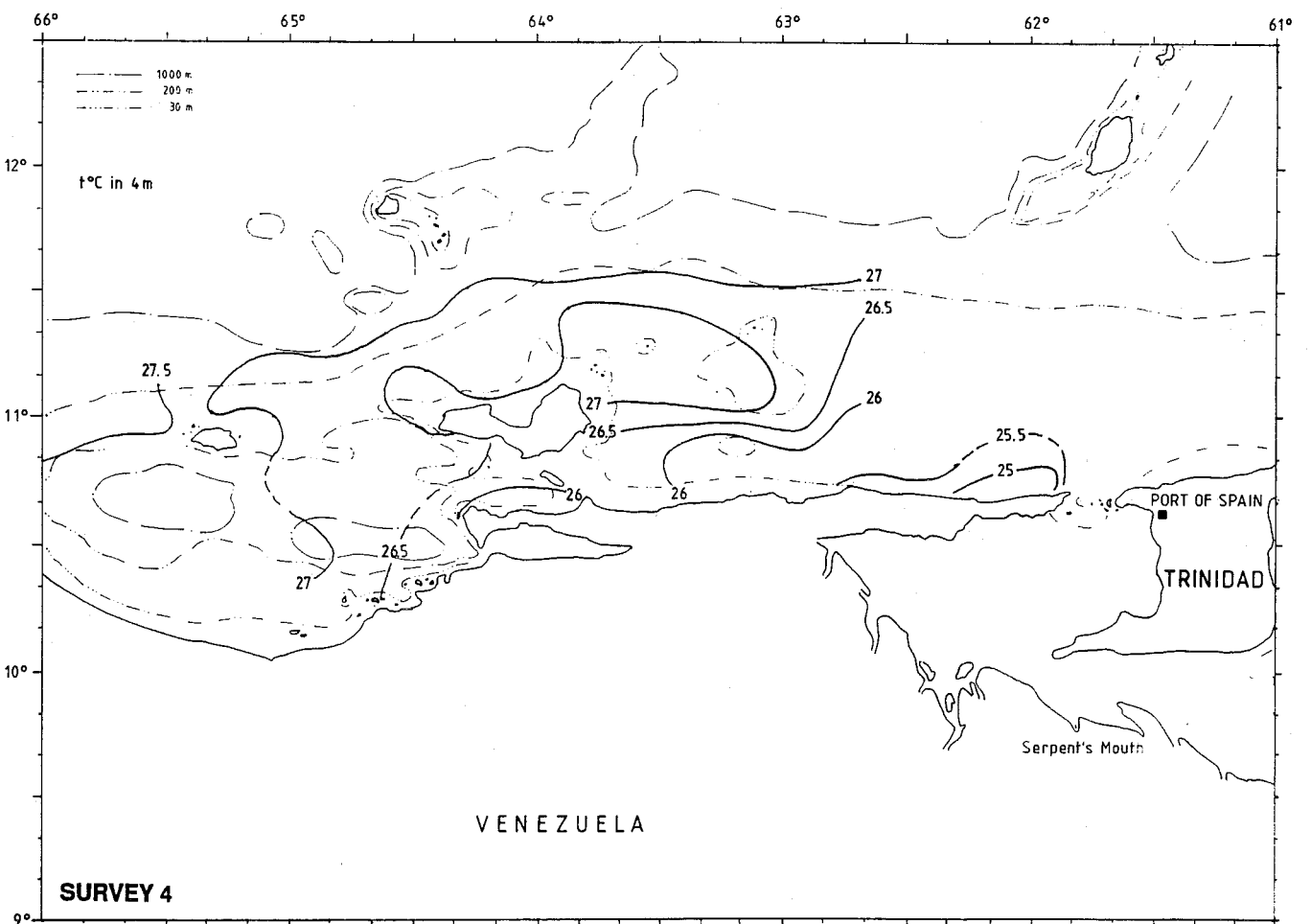
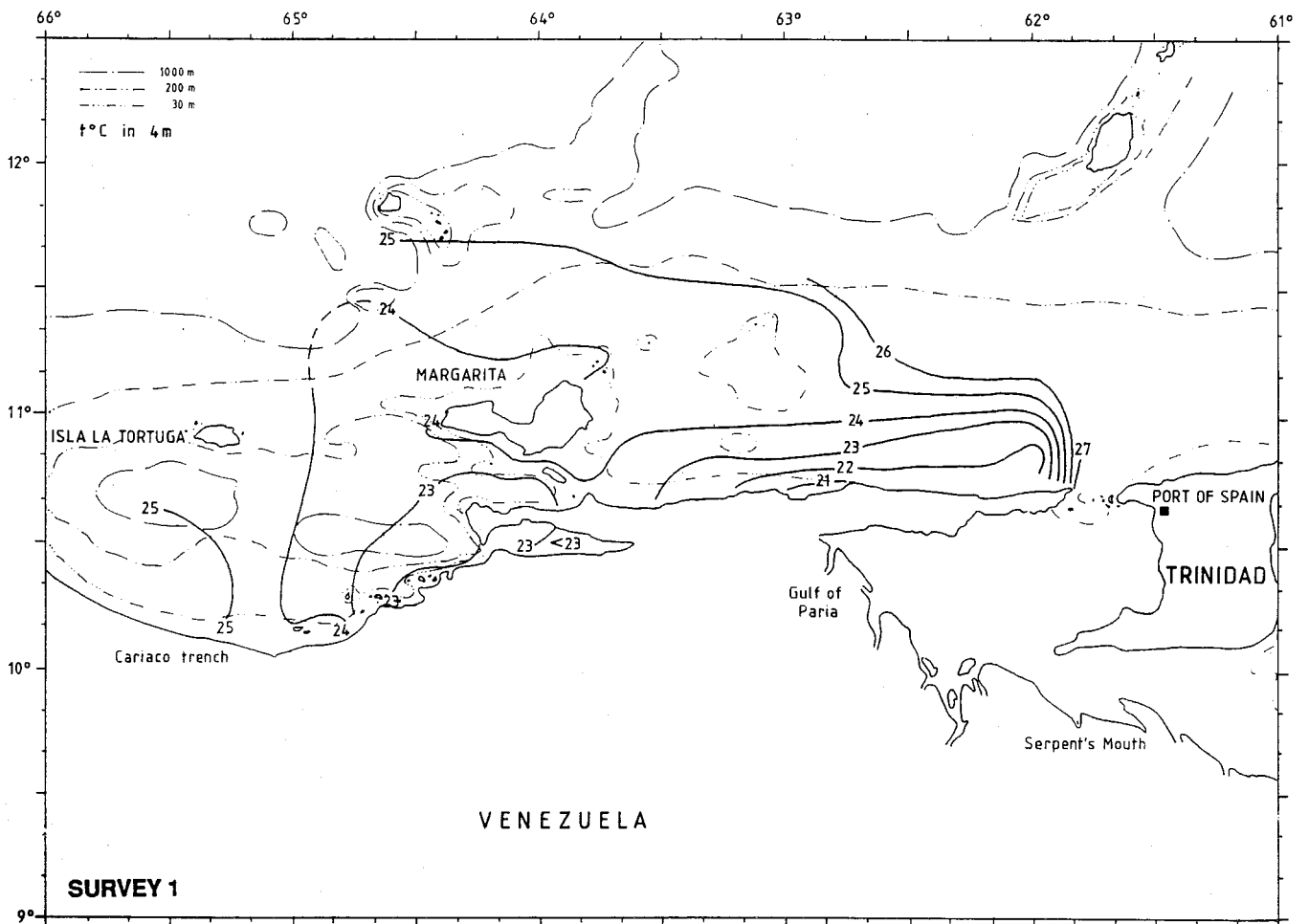
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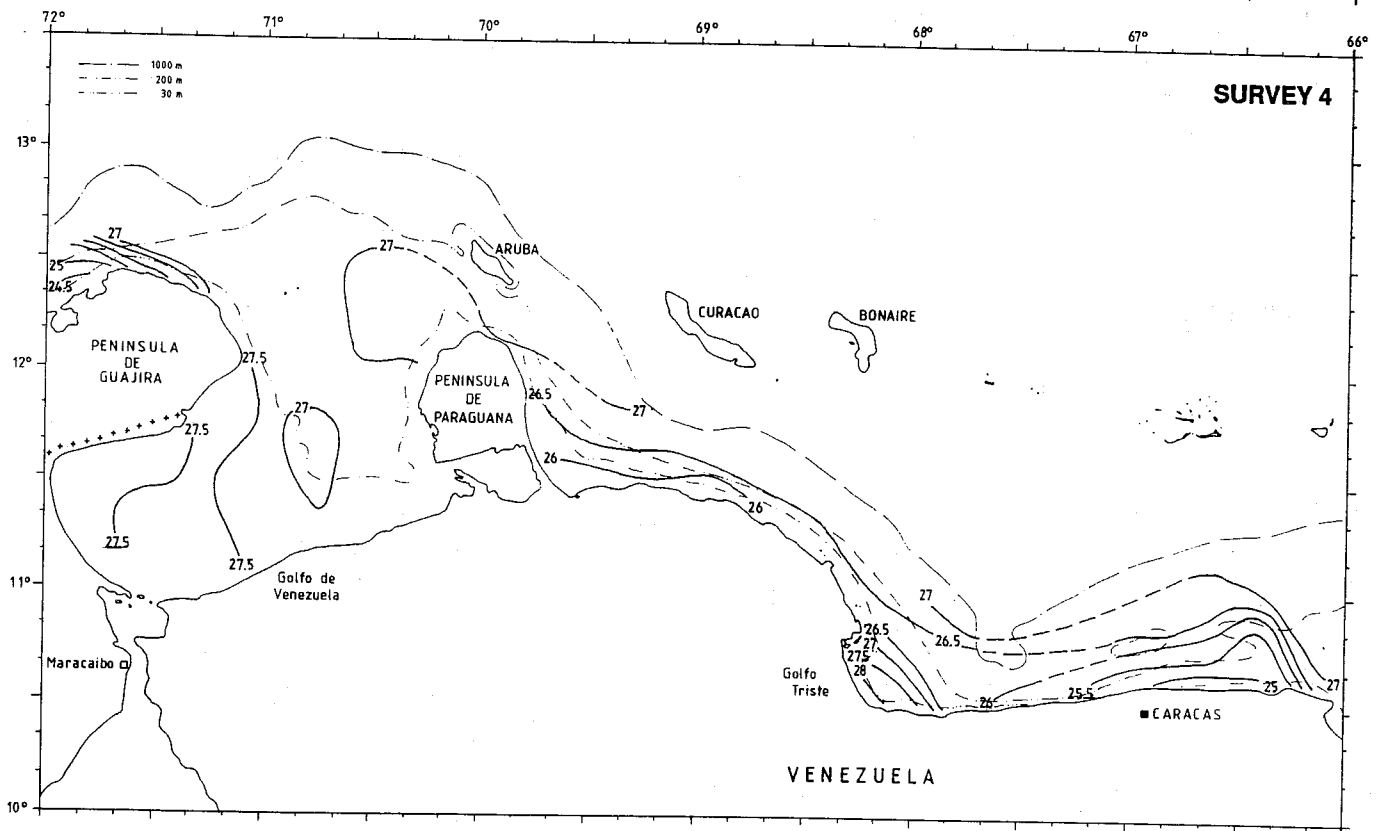
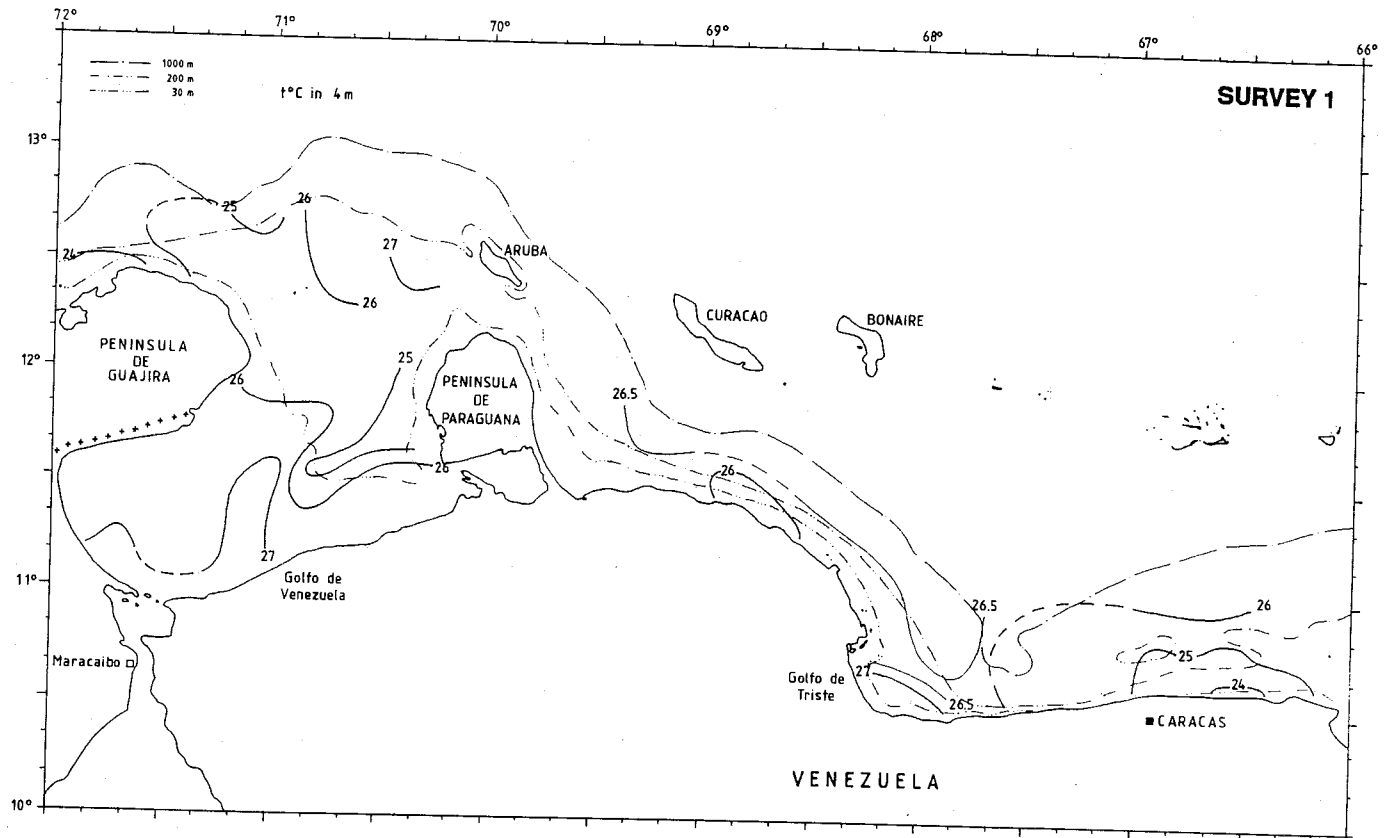


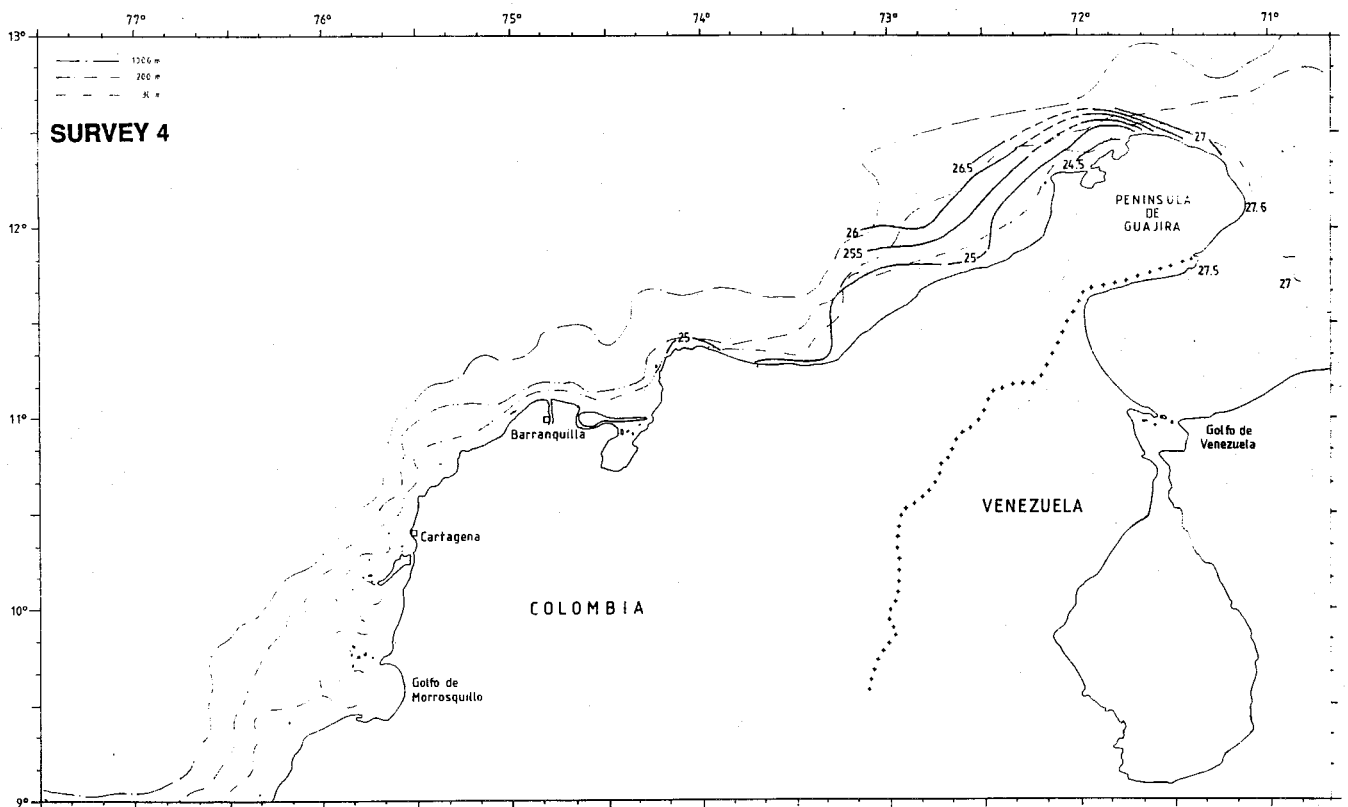
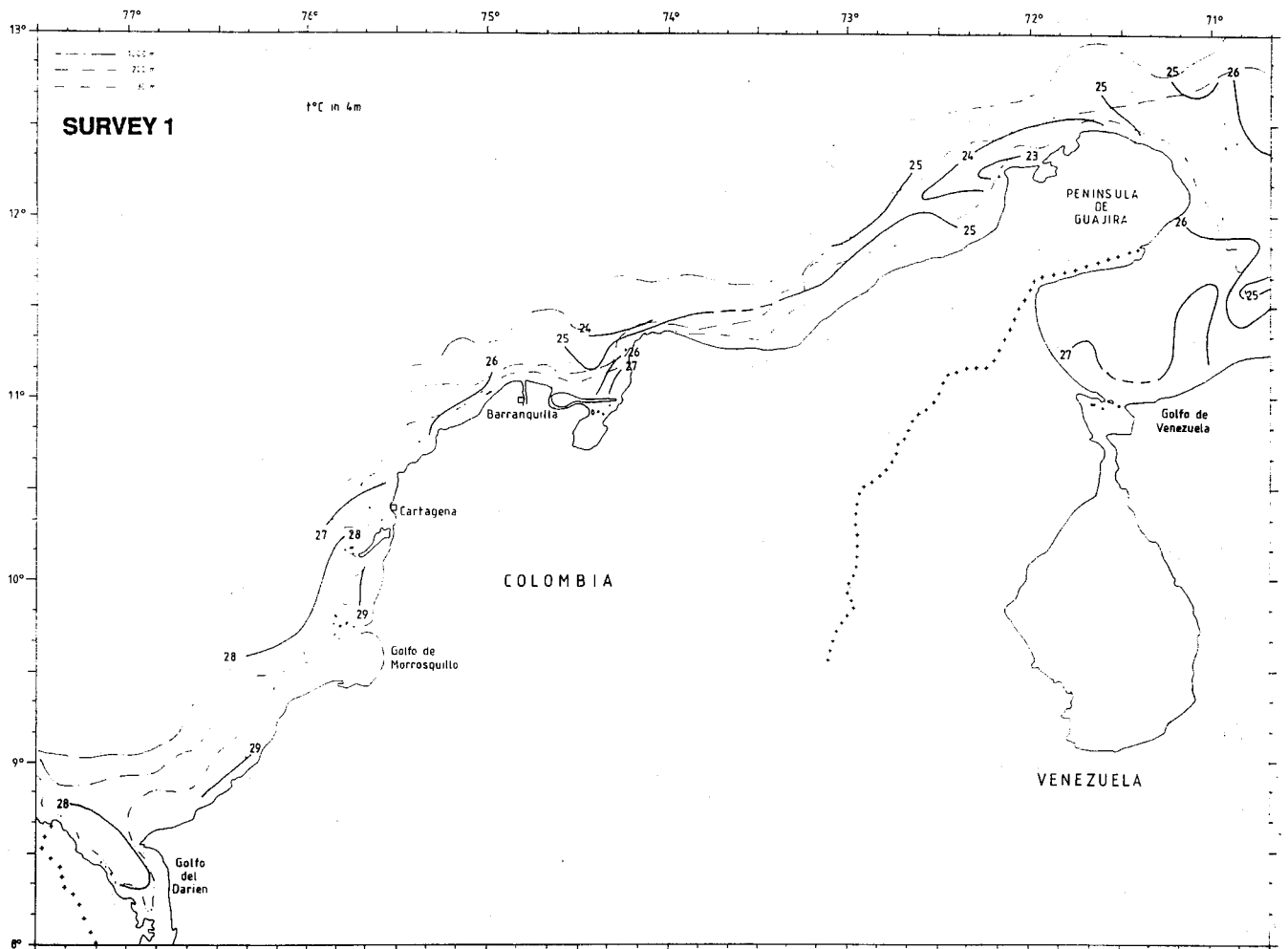
ISLAS DEL ROSARIO





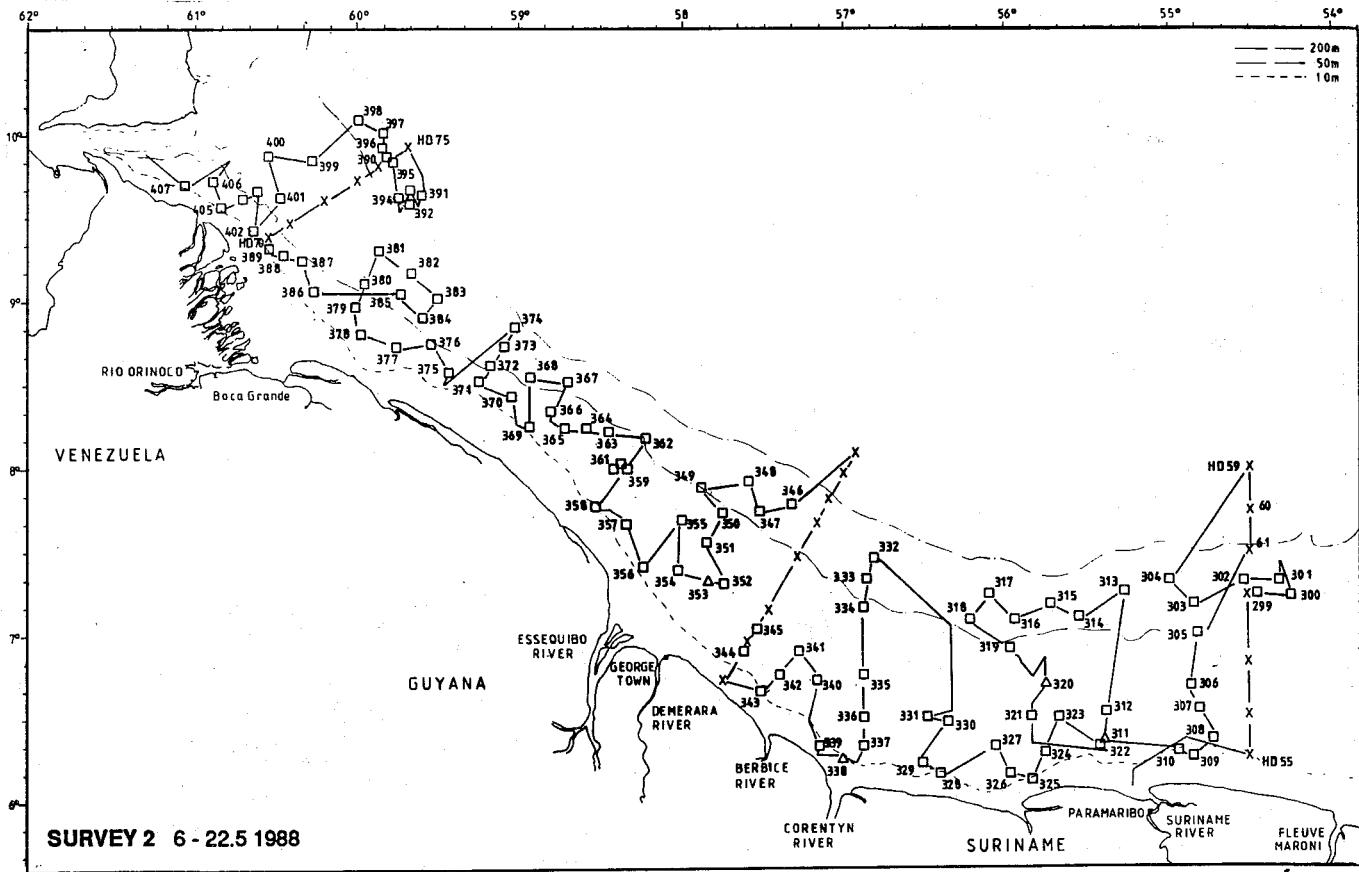
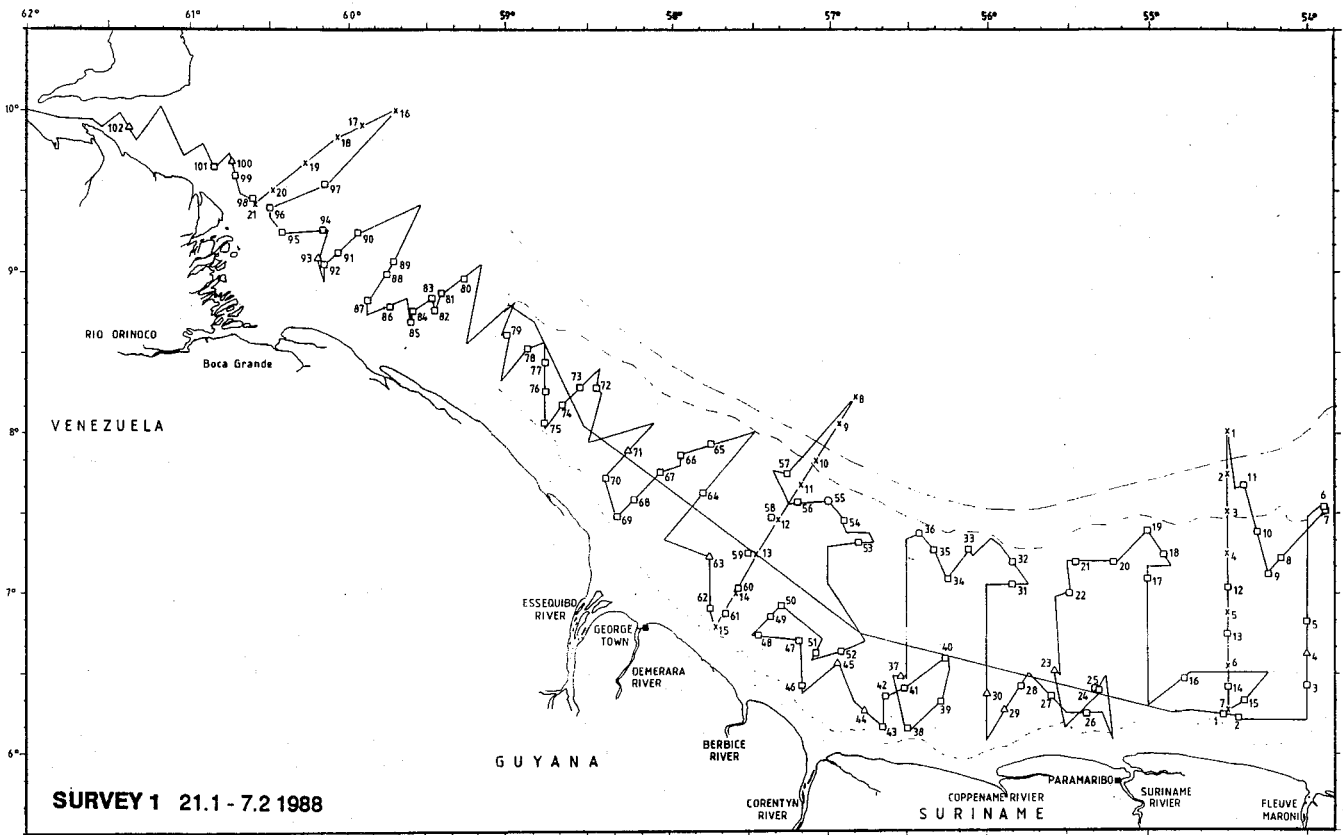


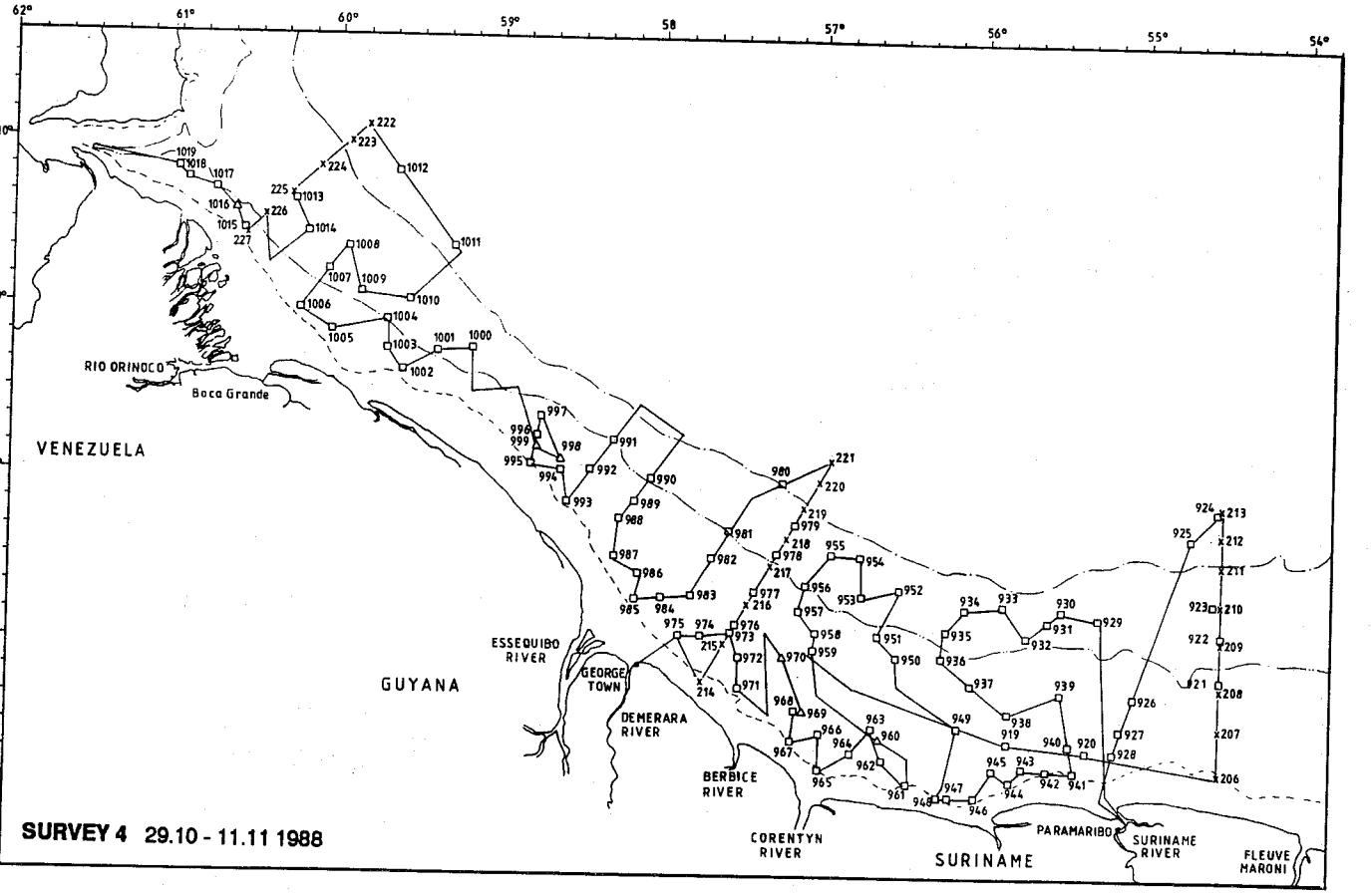
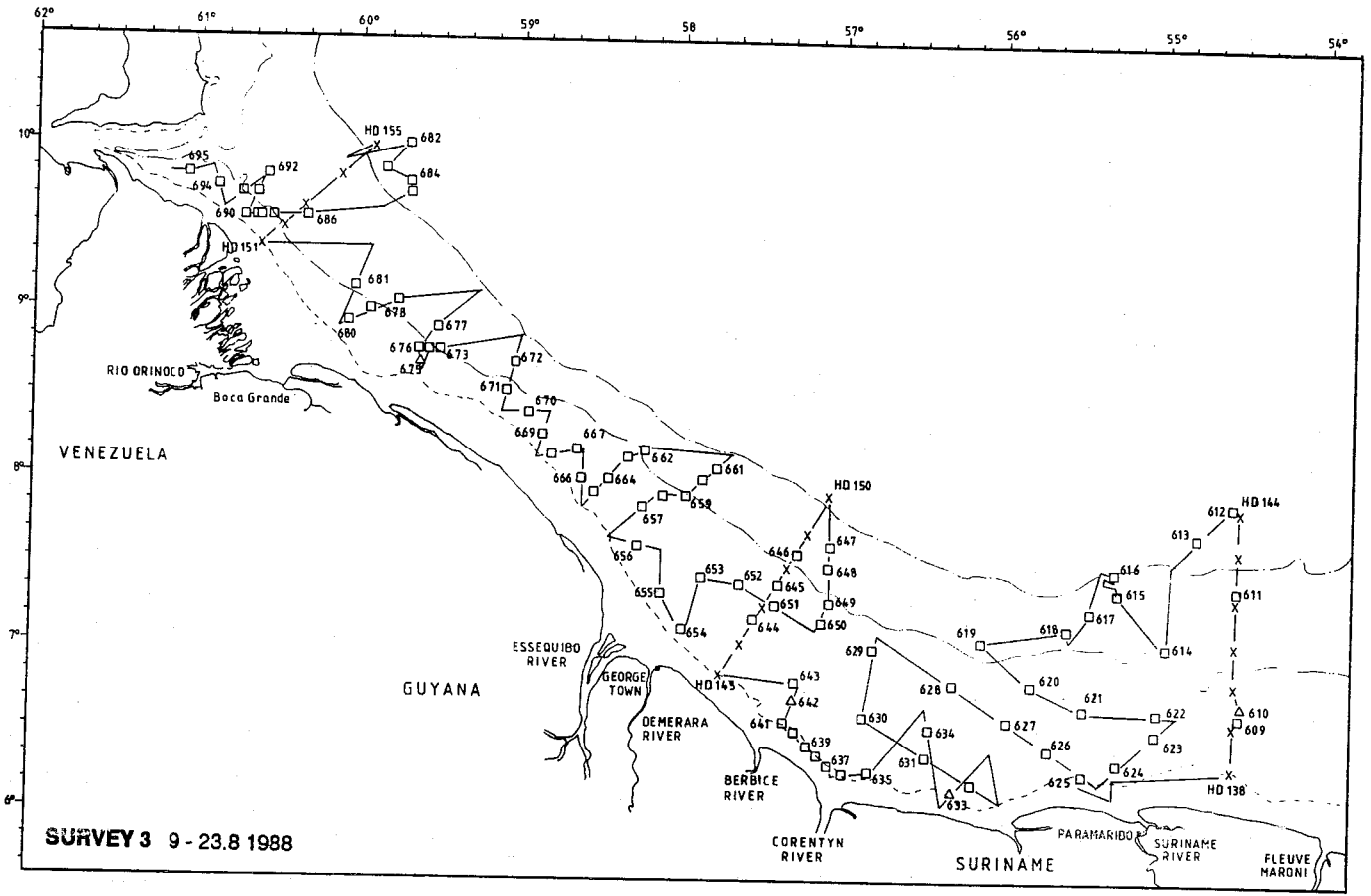


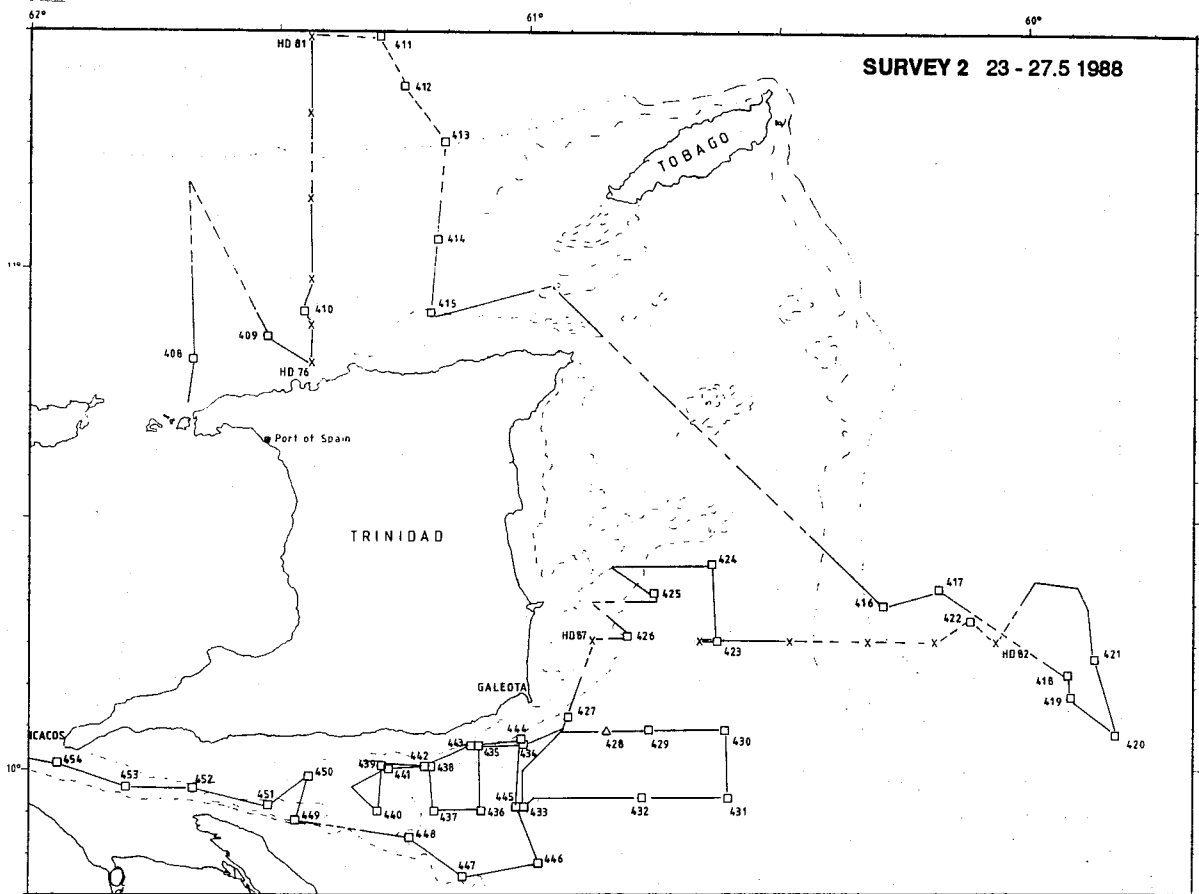
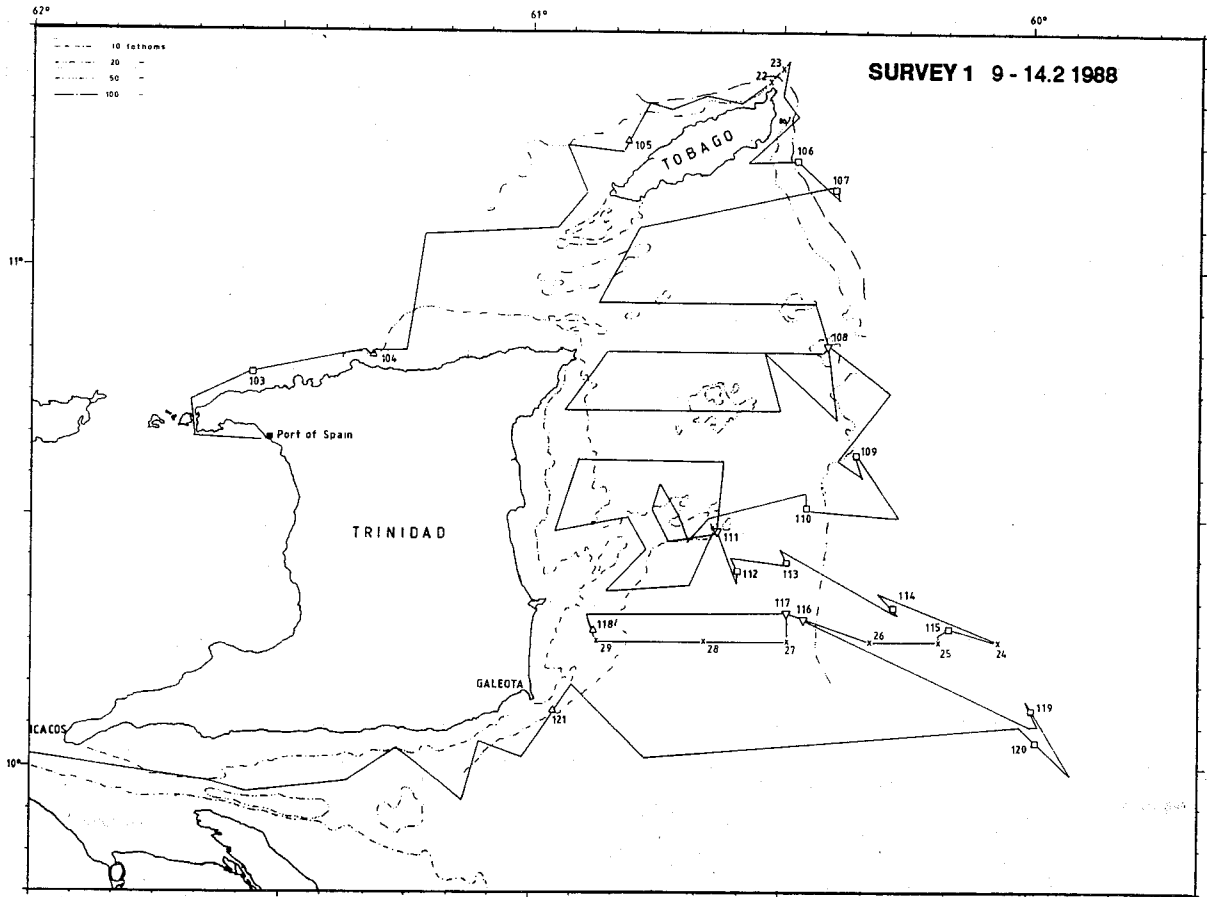


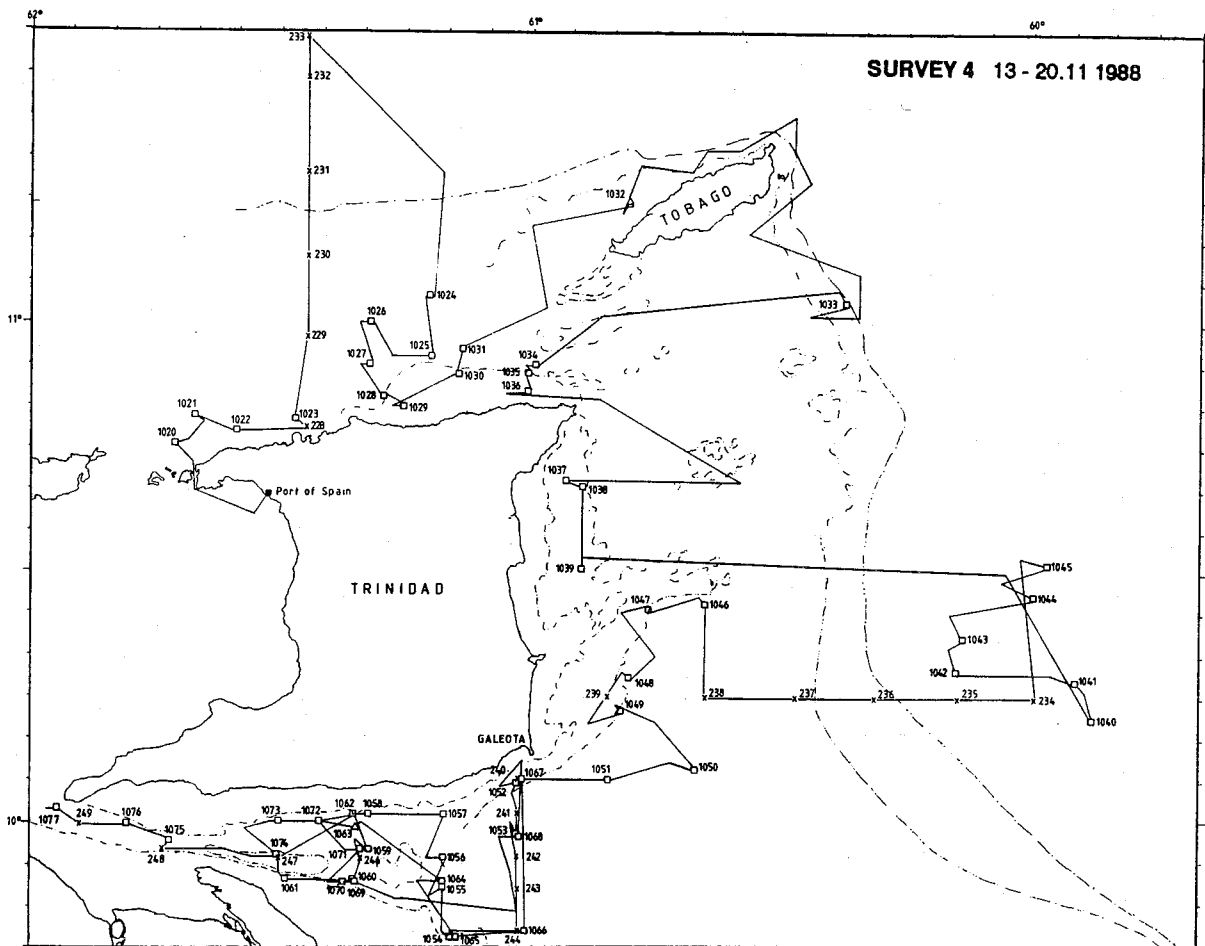
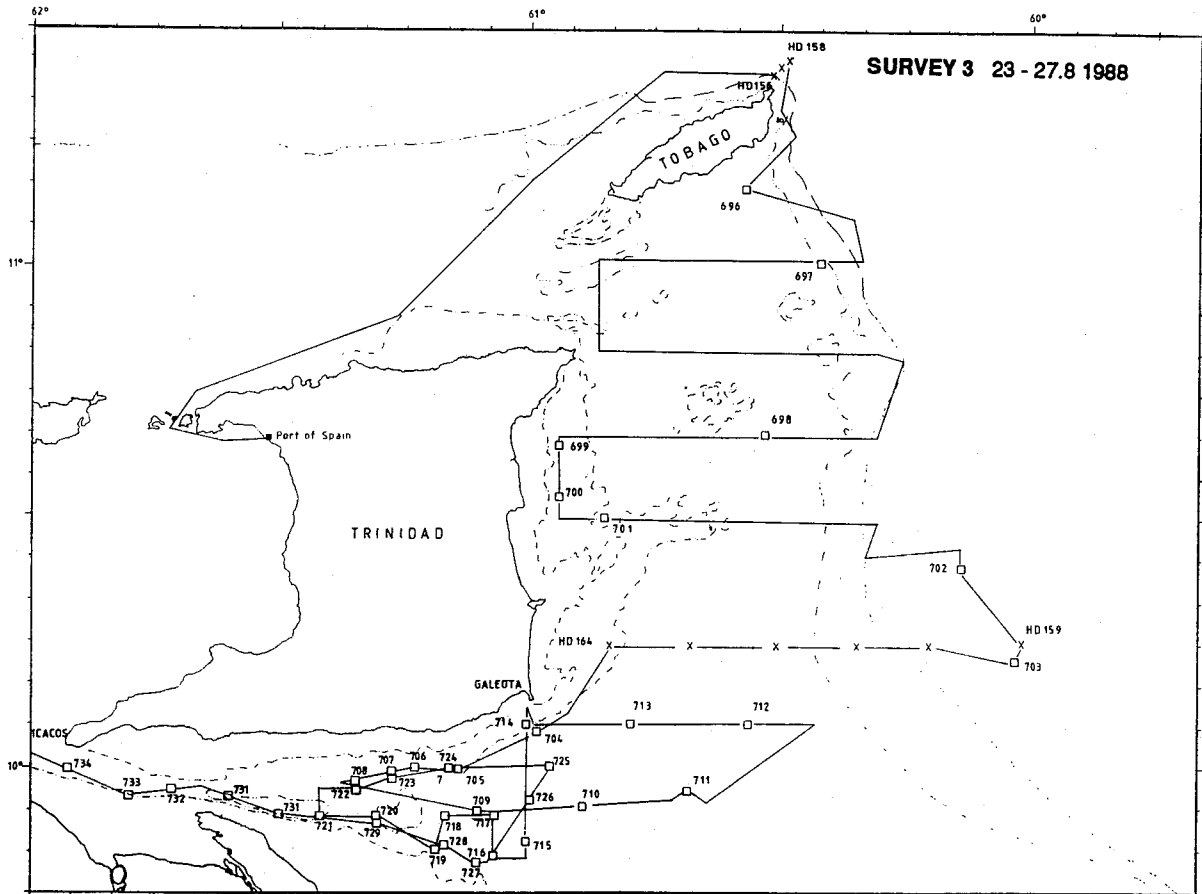
Annex 2. Course tracks and fishing stations.

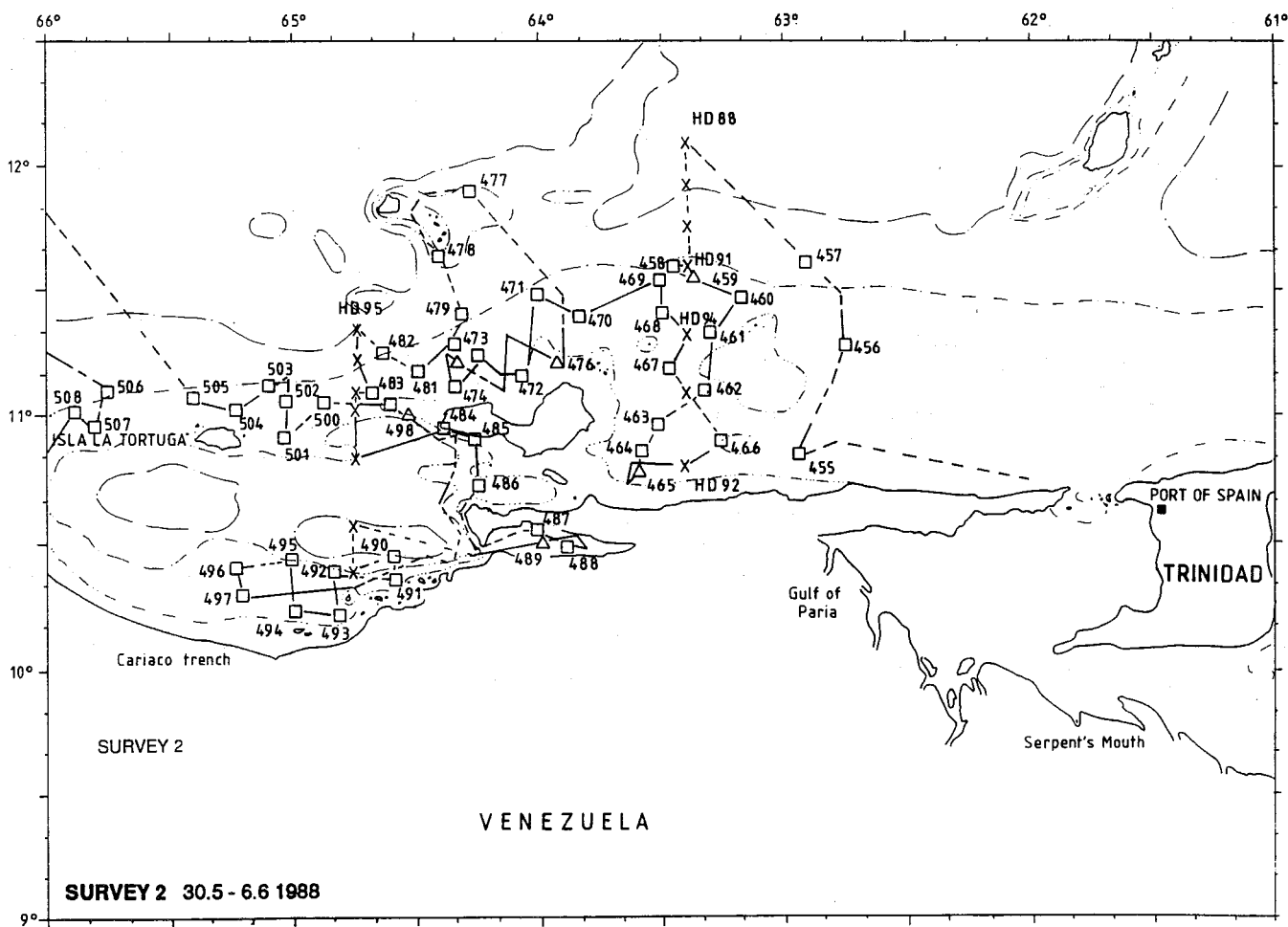
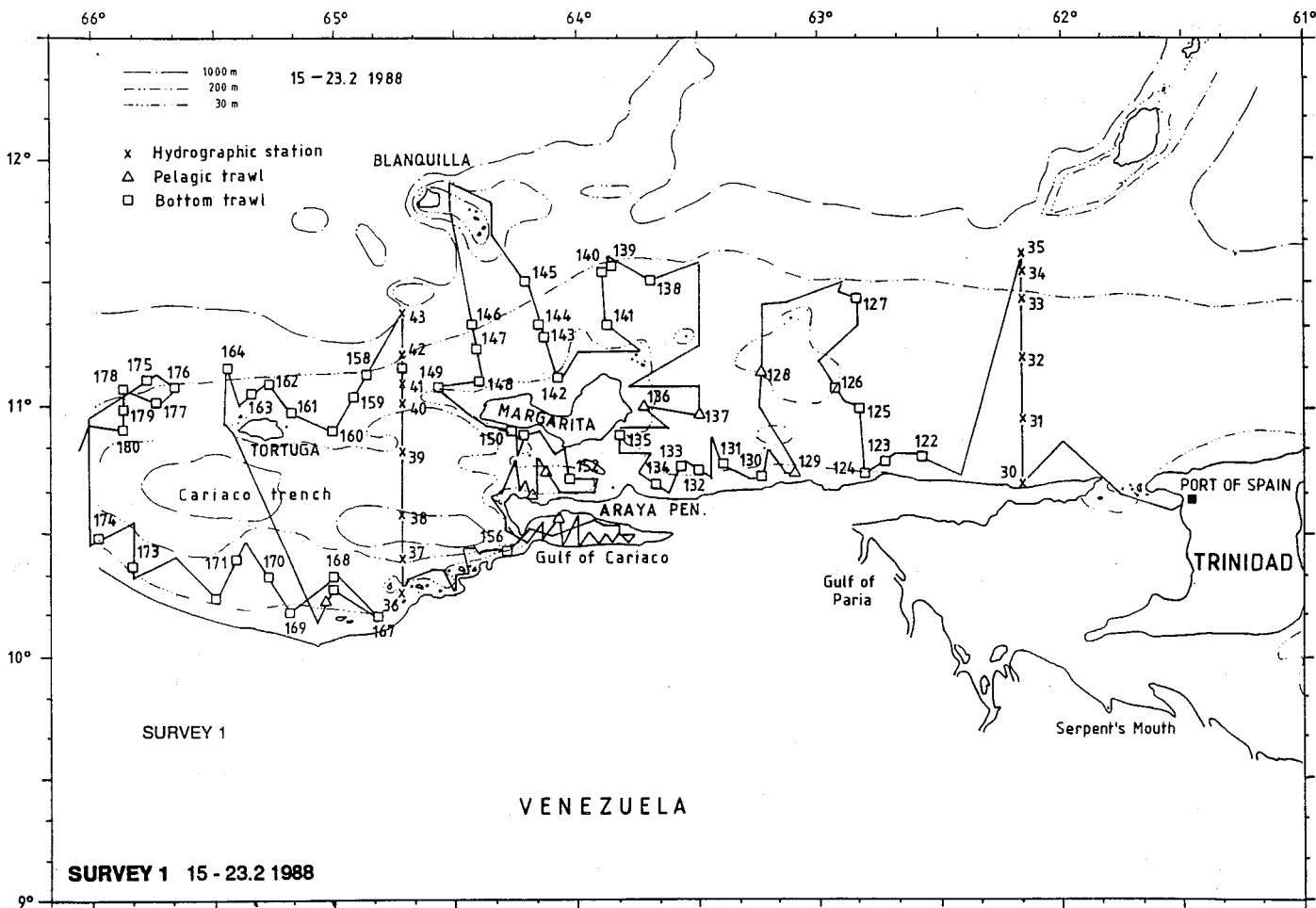
Apendice 2. Trayectos y estaciones pesqueras.

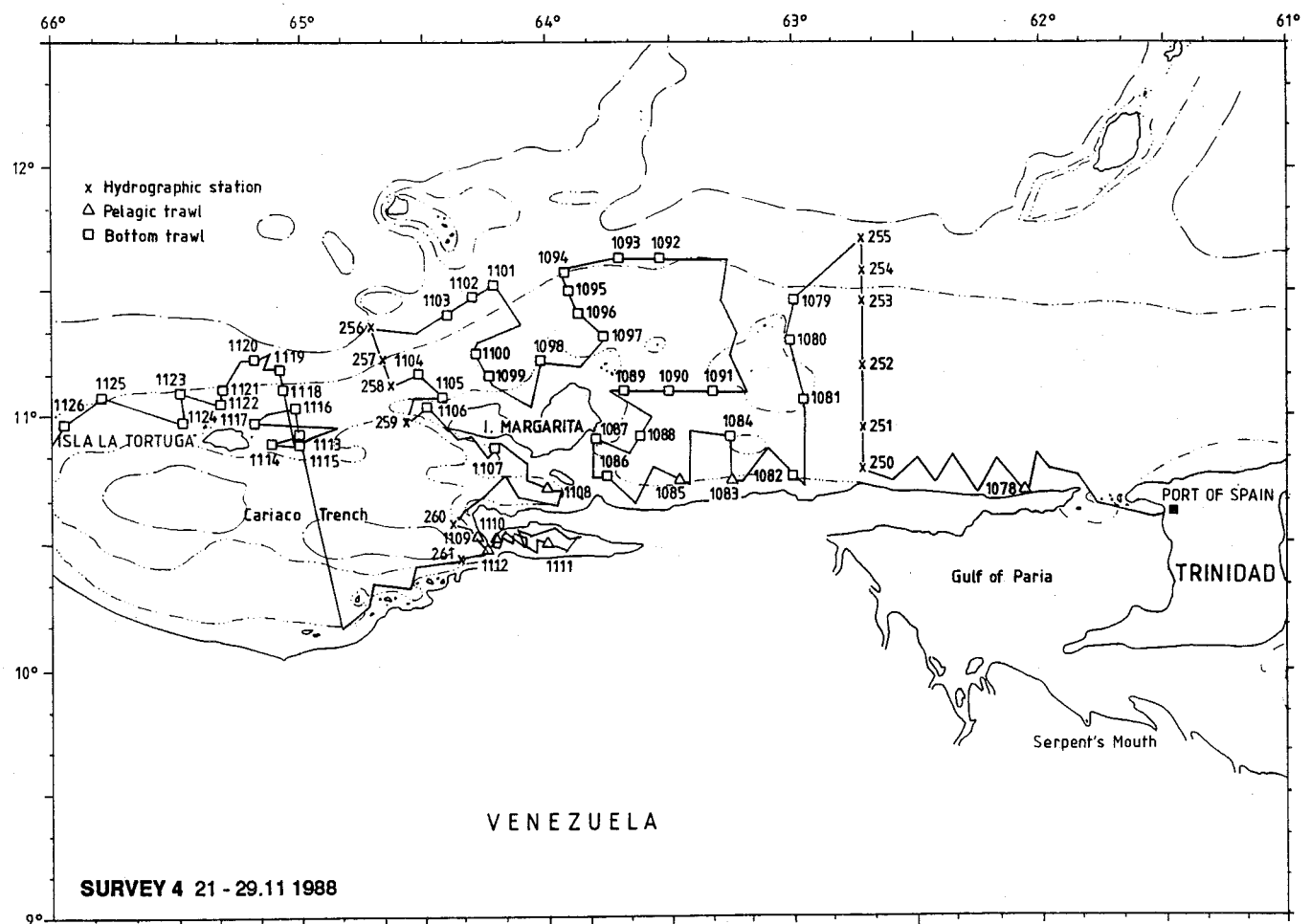
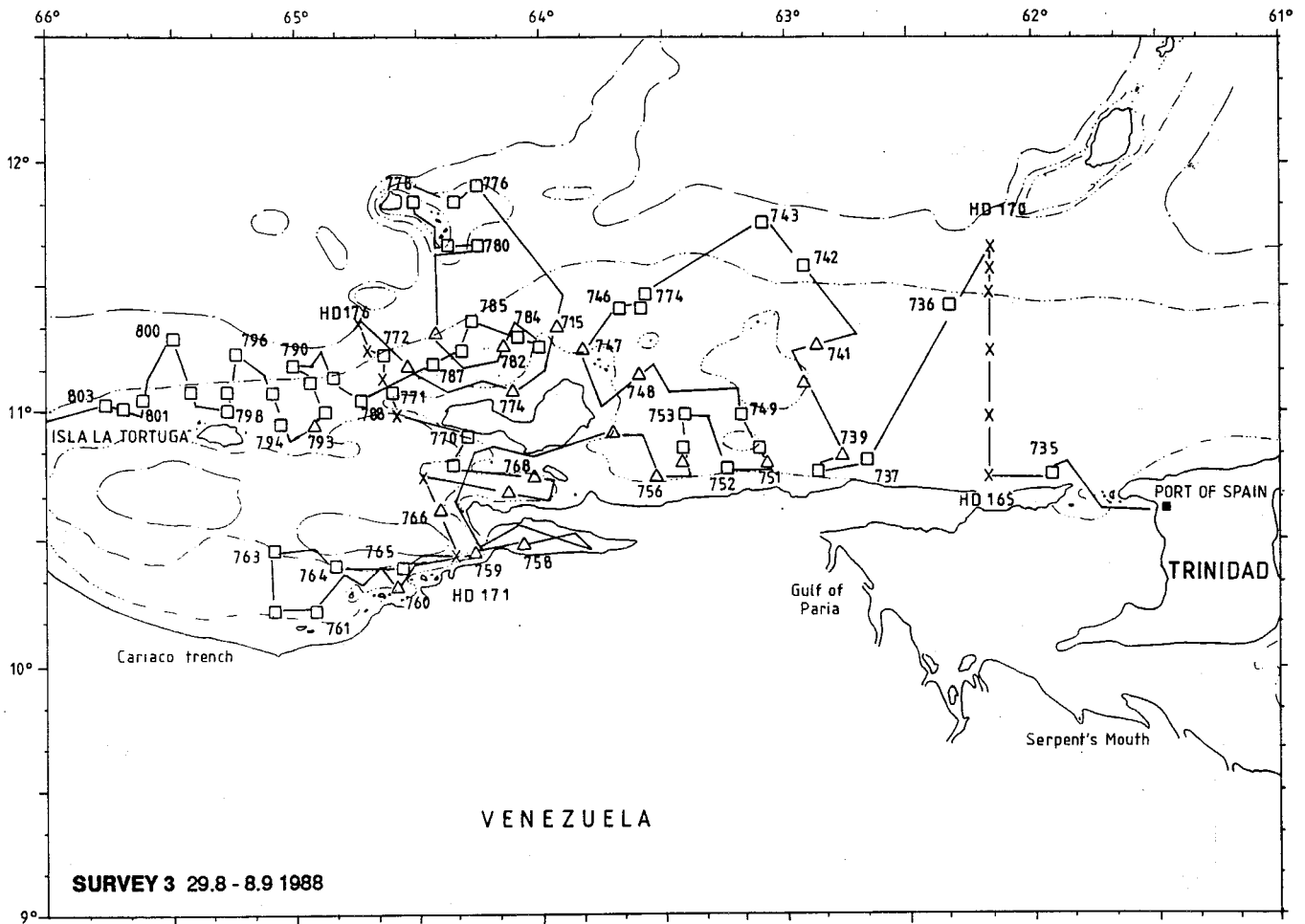


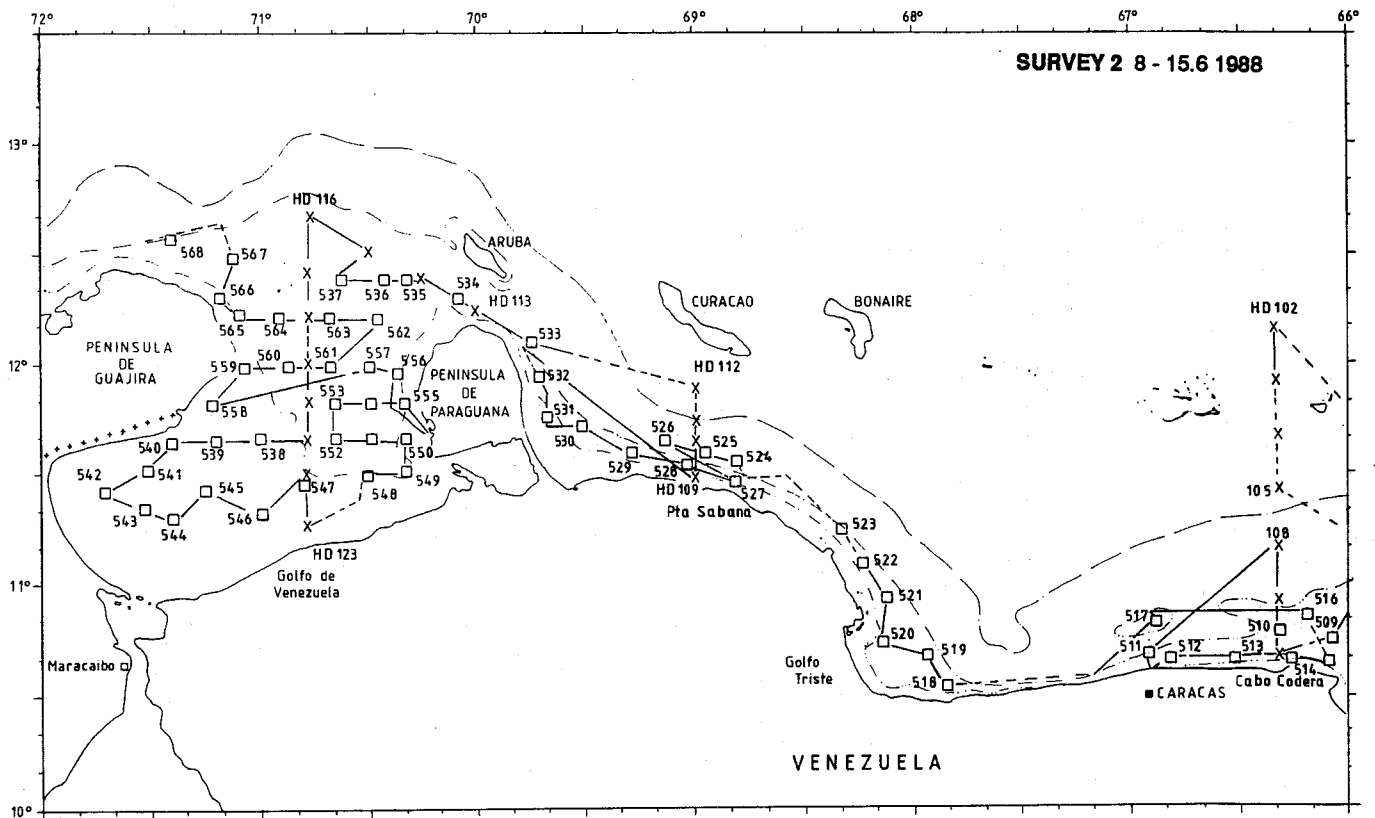
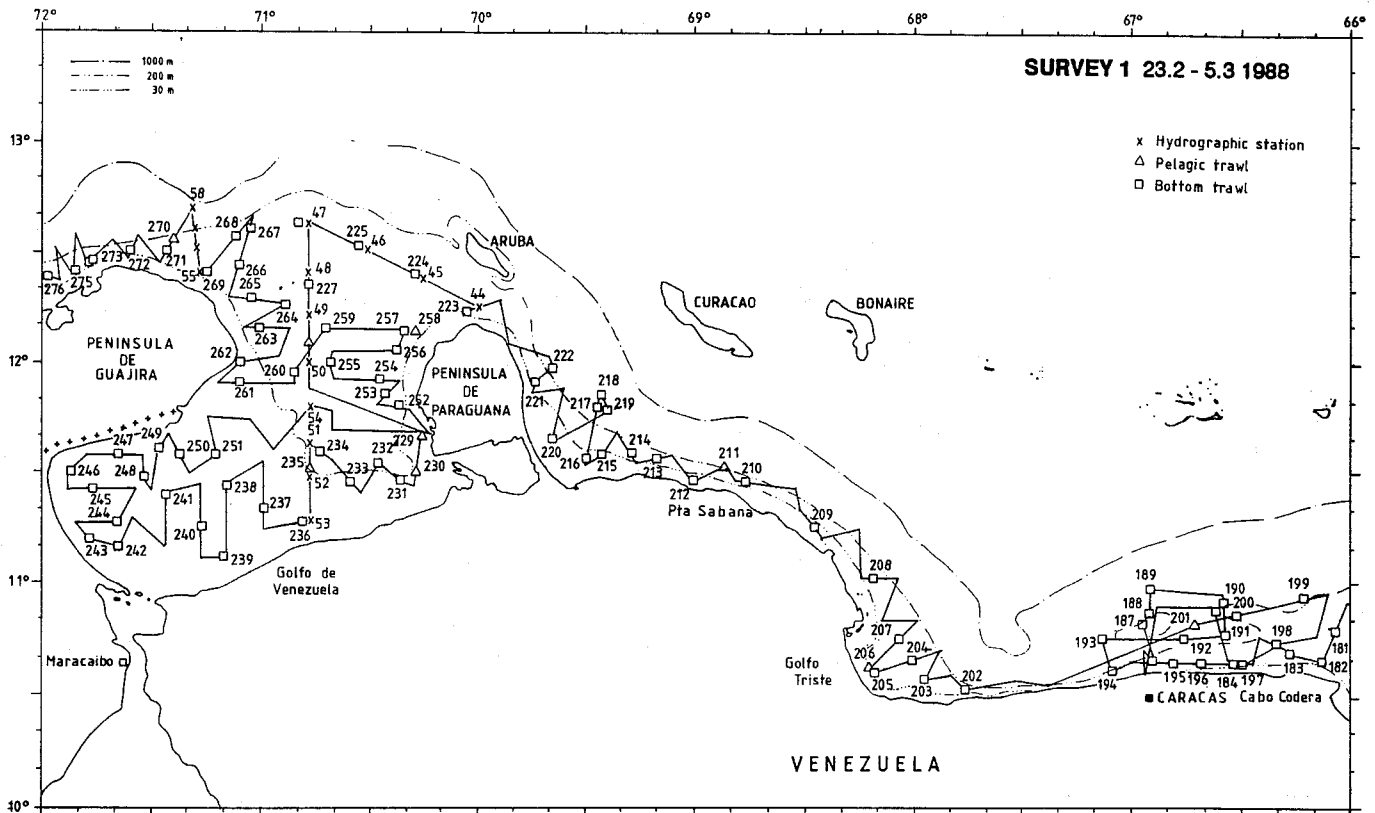


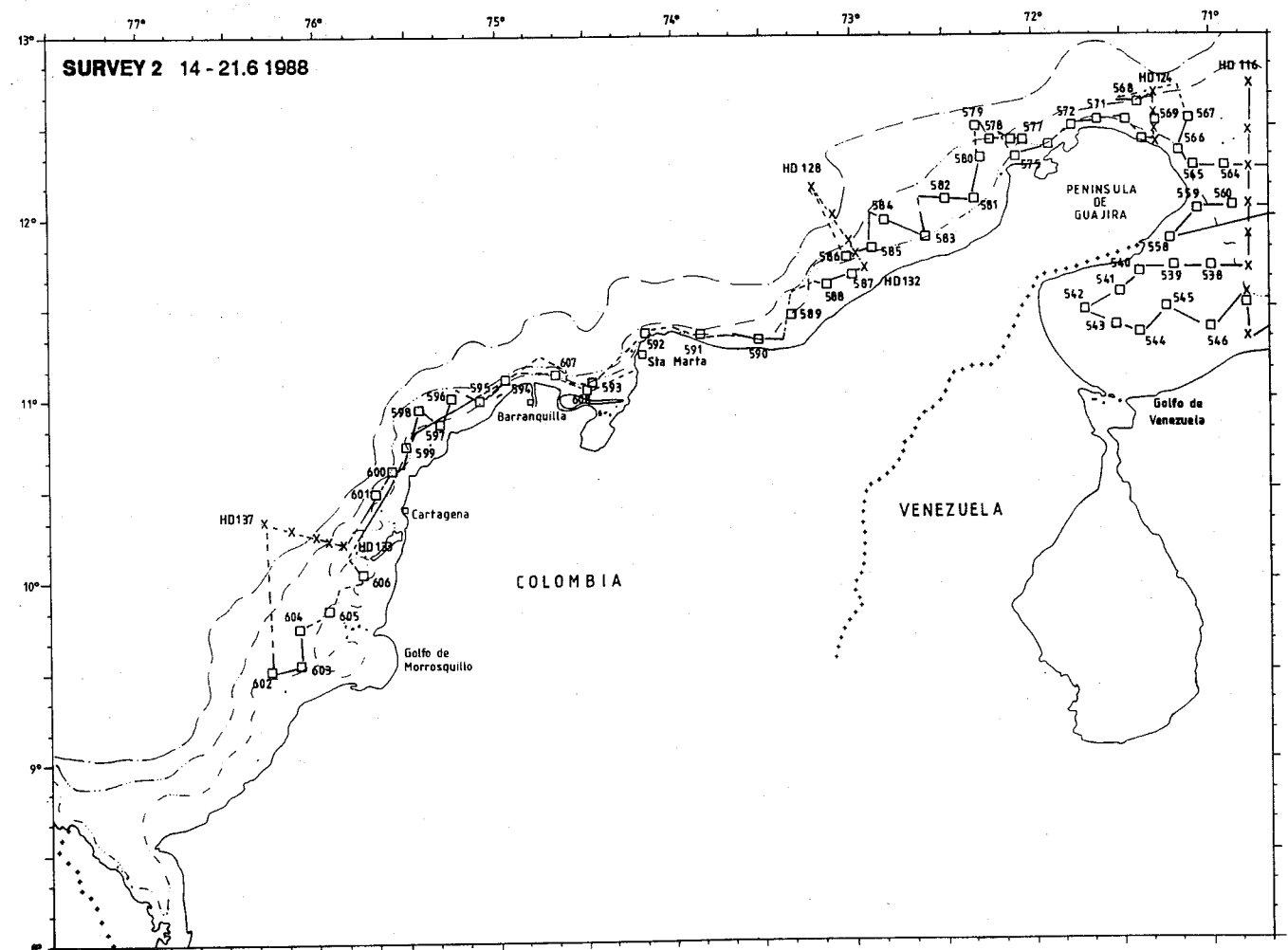
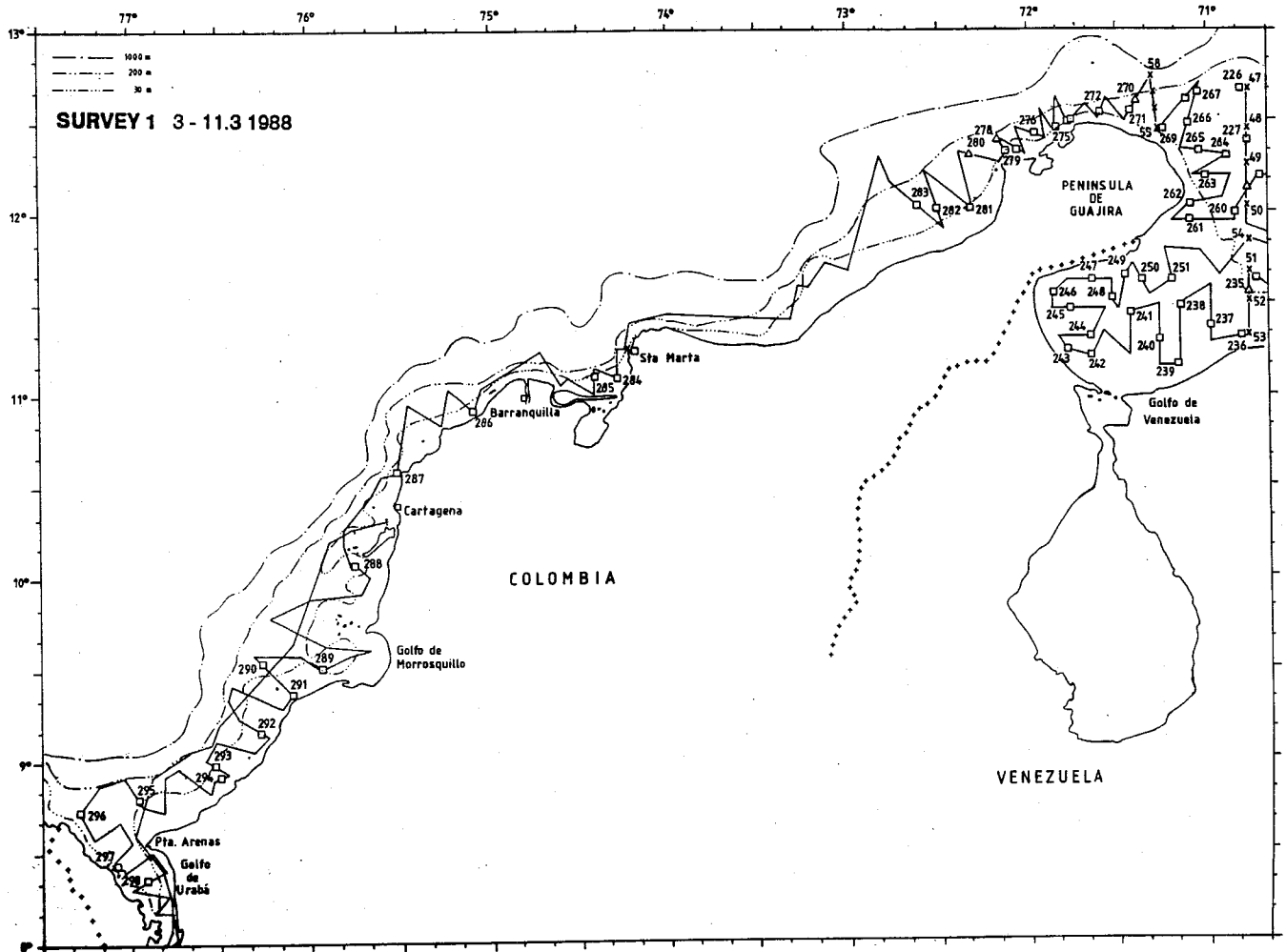


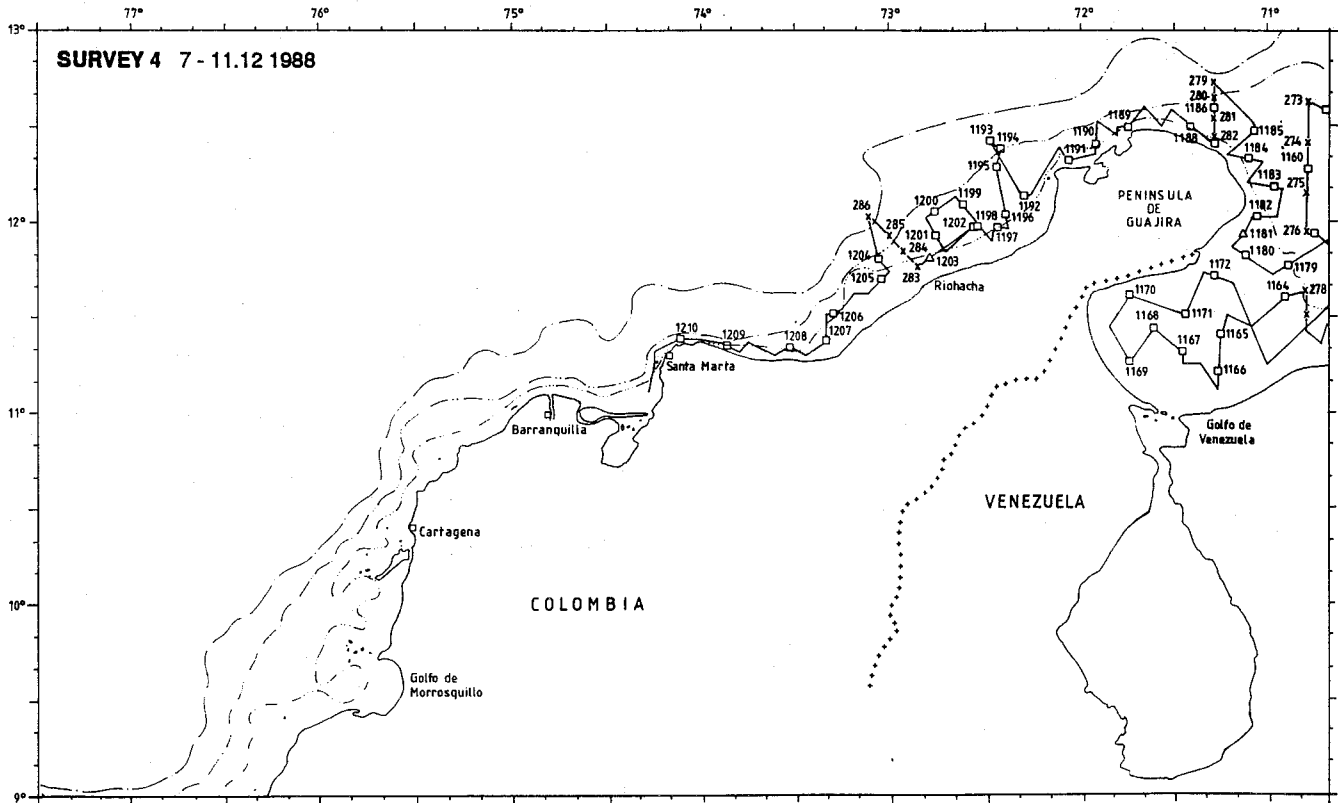
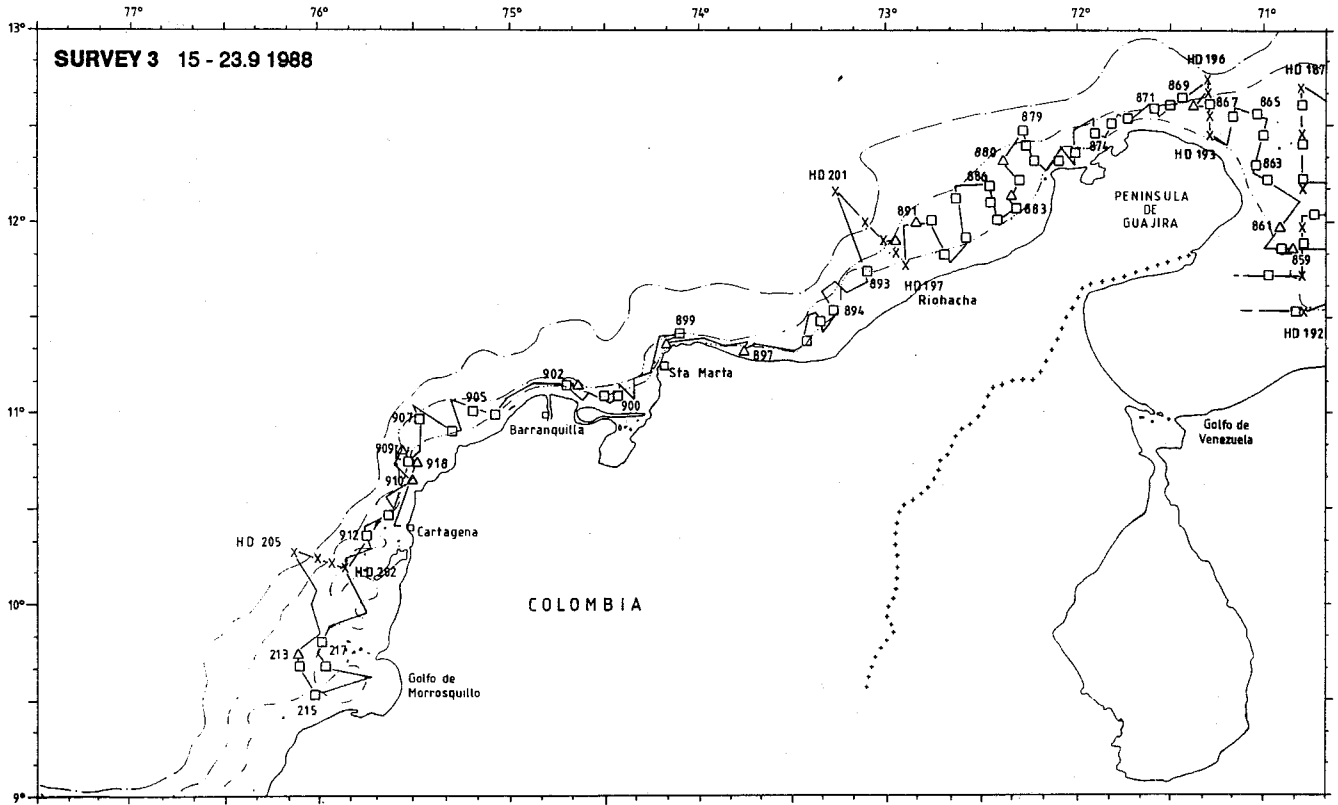












Annex 3. List of fishing stations, including all species by area.

Apendice 3. Lista de estaciones pesqueras, incluyendo todas las especies por area.

DATE: 23/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 1
 start stop duration POSITION: Lat N 615
 TIME : 16:26 16:56 30 (min) Long W 5432
 LOG : 8970.00 8971.00 1.90 Purpose code: 3
 FDEPTH: 14 14 Area code : 1
 BDEPTH: 14 14 GearCond.code: 1
 Validity code:
 Towing dir: 90° Wire out: 100 m Speed: 45 kn*10
 Sorted: 35 Kg Total catch: 713.70 CATCH/HOUR: 1427.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Daeyatis gajskesi	504.00	72	35.31	1
Sciaenidae juveniles	156.80	6944	10.99	
Cynoscion virosus	76.00	28	5.32	
Anchoa sp	70.40	4760	4.93	
Xiphopenaeus kroyeri	57.60	5536	4.04	
Rhizoprionodon sp	56.00	96	3.98	
Arius sp	45.00	22	3.15	
Arius paucis	43.20	64	3.03	
Nabris microps	41.60	1376	2.91	
Odontognathus mucronatus	36.80	1280	2.58	
Isopisthus parvipinnis	35.20	2464	2.47	
Cynoscion acoupa	33.00	6	2.31	
Chloroscombrus chrysurus	32.00	3552	2.24	
Sphyrna lewini	30.60	16	2.14	
Rhinodactylus sp	25.60	32	1.79	
Peprilus paru	24.60	1056	1.72	
Fish small non. comm.	24.00		1.60	
Shrimps, small, non comm.	24.00		1.60	
Trichiurus lepturus	22.40	2368	1.57	
Penaeus subtilis	19.20	672	1.35	
Anchoa sp	19.20	2656	1.35	
Scomberomorus regalis	16.00	96	1.12	
Micropogonias furnieri	16.00	32	1.12	
Bagre bagre	9.60	544	0.67	
Gymnusa micrura	4.80	12	0.34	
Ariopsis sp	3.00	6	0.21	2
Opisthonema oglinum	0.00	192		
Total		1427.40	100.00	

DATE: 23/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 2
 start stop duration POSITION: Lat N 613
 TIME : 17:47 18:17 30 (min) Long W 5432
 LOG : 8979.40 8981.50 2.10 Purpose code: 3
 FDEPTH: 15 16 Area code : 1
 BDEPTH: 15 16 GearCond.code: 1
 Validity code:
 Towing dir: 80° Wire out: 75 m Speed: 44 kn*10
 Sorted: 61 Kg Total catch: 60.90 CATCH/HOUR: 121.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chaetodipterus faber	72.00	38	59.11	
Daeyatis guttata	7.70	4	6.32	
Macrodon ancylodon	6.60	200	5.42	
Rhizoprionodon sp	6.00	10	4.93	
Ariopsis sp	5.00	2	4.11	
Scomberomorus regalis	5.00	4	4.11	
Trichiurus lepturus	2.60	308	2.13	
Chloroscombrus chrysurus	2.30	280	1.89	
Peprilus paru	2.00	60	1.64	
Anchoa sp	2.00	120	1.64	
Odontognathus mucronatus	2.00	94	1.64	
Micropogonias furnieri	2.00	2	1.64	
Pellona harroweri	1.30	260	1.07	
Peprilus paru	1.30	16	1.07	
Anchoa sp	1.00	164	0.82	
Echeneis leucoratus	1.00	2	0.82	
Isopisthus parvipinnis	0.80	42	0.66	
Penaeus subtilis	0.60	22	0.49	
Xiphopenaeus kroyeri	0.60	80	0.49	
Opisthonema oglinum	0.10	10	0.00	
Bairdiella ronchus	0.00	6		
Oligoplites pavoletta	0.00	2		
Selene vomer	0.00	2		
Lycoteuthis grossidens	0.00	2		
Bagre bagre	0.00	4		
Nabris microps	0.00	4		
Sphyrna pinnifila	0.00	4		
Lolliguncula brevis	0.00	8		
Scomberomorus regalis	0.00	4		
Total		121.90	100.00	

DATE: 23/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 3
 start stop duration POSITION: Lat N 626
 TIME : 22:45 23:15 30 (min) Long W 5359
 LOG : 9026.20 9027.10 0.90 Purpose code: 3
 FDEPTH: 26 30 Area code : 1
 BDEPTH: 26 30 GearCond.code: 1
 Validity code:
 Towing dir: 280° Wire out: 125 m Speed: 19 kn*10
 Sorted: 16 Kg Total catch: 136.90 CATCH/HOUR: 273.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
CLUPEIDAE	85.50	23770	31.23	
Anchoa sp	66.50	15828	24.29	
Selene vomer	47.50	36	17.35	
Chaetodipterus faber	45.00	18	16.44	
Trichiurus lepturus	11.90	484	4.35	
Isopisthus parvipinnis	9.80	120	3.50	
Peprilus paru	3.80	20	1.39	
Pellona harroweri	3.80	438	1.39	
Macrodon ancylodon	0.00	98		
Total		273.80	100.00	

DATE: 24/ 1/88 GEAR TYPE: PT No:4 PROJECT STATION: 4
 start stop duration POSITION: Lat N 639
 TIME : 01:05 01:25 20 (min) Long W 5359
 LOG : 9044.40 9045.40 1.00 Purpose code: 1
 FDEPTH: 0 0 Area code : 1
 BDEPTH: 39 39 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 50 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 7.70 CATCH/HOUR: 23.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Clupeidae juveniles	18.00		77.92	
Trichiurus lepturus	1.50	3	6.49	
Sphyrna quachancho	1.20	3	5.19	
Selar crumenophthalmus	0.90	6	3.90	
Lolliguncula brevis	0.90	42	3.90	
Euleptorhamphus velox	0.60	3	2.60	
Total		23.10	100.00	

DATE: 24/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 5
 start stop duration POSITION: Lat N 649
 TIME : 02:53 03:23 30 (min) Long W 5359
 LOG : 9056.10 9059.10 3.00 Purpose code: 3
 FDEPTH: 45 45 Area code : 1
 BDEPTH: 45 45 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: 20 kn*10
 Sorted: 4 Kg Total catch: 11.50 CATCH/HOUR: 23.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion acoupa	5.60	28	24.35	
Penaeus subtilis	2.20	60	9.57	3
Gymnothorax ocellatus	2.00	12	8.70	
Opisthonema oglinum	2.00	20	8.70	
Penaeus brasiliensis	1.80	34	7.83	4
Hemicaranx nabyrhynchus	1.60	8	6.96	
Euthynnus aliotheratus	1.40	2	6.09	
Upeneus parvus	1.20	20	5.22	
Chloroscombrus chrysurus	1.00	8	4.35	
Synodus acutus	0.80	4	3.40	
Diplocterus formosum	0.80	20	3.48	
Selene setipinnis	0.80	8	3.48	
Syngnathus sp	0.60	80	2.61	
Ulaeom infocyi	0.40	20	1.74	
Haemulon bonchmae	0.40	8	1.74	
Lepophilidius sp	0.40	32	1.74	
Anchoa sp	0.40	24	1.74	
Acanthostracion quadricornis	0.00	8		
Prionotus rubio	0.00	4		
Trichiurus lepturus	0.00	4		
SCIAENIDAE	0.00	72		
Total		23.00	100.00	

DATE: 24/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 6
 start stop duration POSITION: Lat N 732
 TIME : 08:20 09:20 60 (min) Long W 5355
 LOG : 9107.80 9111.80 4.00 Purpose code: 3
 FDEPTH: 316 320 Area code : 1
 BDEPTH: 316 320 GearCond.code: 1
 Validity code:
 Towing dir: 100° Wire out: 1150 m Speed: 37 kn*10
 Sorted: 12 Kg Total catch: 190.60 CATCH/HOUR: 190.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cubiceps sp	117.60	3716	61.70	7
Caroharhinus signatus	17.00	1	8.92	
Polymixia sp	14.40	312	7.56	8
Parasudis sp	12.60	684	6.61	
Illex sp	11.85	203	6.22	6
Squatina dummeril	6.00	1	3.15	
APOGONIDAE	6.00	60	3.15	
Heptanchias perlo	3.00	1	1.57	
Plesionopaeus edwardsianus	2.20	231	1.15	5
Coelacanthus sp	0.00	12		
MACROURIDAE	0.00	24		
Sen urochin	0.00	12		
Peristedion sp	0.00	36		
SCYLLARIDAE	0.00	12		
Xenolepidichthys sp	0.00	12		
Antigonia combata	0.00	12		
Total		190.60	100.00	

DATE: 24/ 1/88 GEAR TYPE: BT No:1 PROJECT STATION: 7
 start stop duration POSITION: Lat N 730
 TIME : 10:05 11:05 60 (min) Long W 5352
 LOG : 9114.80 9117.80 3.00 Purpose code: 3
 FDEPTH: 295 299 Area code : 1
 BDEPTH: 295 299 GearCond.code: 1
 Validity code:
 Towing dir: 285° Wire out: 1100 m Speed: 30 kn*10
 Sorted: 9 Kg Total catch: 44.80 CATCH/HOUR: 44.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cubiceps sp	20.00	560	44.64	
Illex sp	7.10	93	15.85	
Parasudis sp	5.60	504	12.50	
Polymixia sp	5.20	116	11.61	
APOGONIDAE	2.00	36	4.46	
Plesionopaeus edwardsianus	1.70	218	3.79	
PERCOPHIDAE	1.40	16	3.13	
Peristedion sp	1.20	28	2.60	
Antigonia combata	0.60	20	1.34	
Pocillopoceta sp	0.00	12		
HYCTHIDAE	0.00	12		
MACROURIDAE	0.00	12		
Semiossa sp	0.00	1		
Total		44.80	100.00	

PROJECT STATION: 111
 DATE: 11/ 2/88 GEAR TYPE: BT No:4 POSITION: Lat N 1028 Long W 6038
 start stop duration
 TIME : 21:45 07:30
 LOG : 2216.00 2210.00 4.00
 FDEPTH: 23 23
 DDEPTH: 23 23
 Towing dir: 80° Wire out: 720 m Speed: kn*10
 Sorted: 8kg Total catch: 100.00 CATCH/HOUR: 7.02

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Glygymostoma cirratum	7.02	100.00	
Total	7.02	100.00	

PROJECT STATION: 112
 DATE: 12/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1023 Long W 6035
 start stop duration
 TIME : 10:02 10:32
 LOG : 2223.20 2223.40 0.20
 FDEPTH: 60 61
 DDEPTH: 60 61
 Towing dir: 340° Wire out: 350 m Speed: 5 kn*10
 Sorted: 11 Kg Total catch: 91.40 CATCH/HOUR: 102.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Trichurus lepturus	52.80	11264	28.88
Sphyræna plicidilla	24.40	170	13.35
Lutjanus purpurus	20.00	12	10.94
Rhizoprionodon porosus	13.20	20	7.22
Scomberomorus cavalla	12.40	68	6.78
Chloroscombrus chrysurus	9.60	516	5.25
Rhomboplites aurorubens	9.60	660	5.25
Sphyræna plicidilla	7.20	40	3.94
Selene setapinnis	4.80	96	2.63
Selar crumenophthalmus	4.80	92	2.63
Pomatomus saltatrix	2.60	4	1.42
Loligo sp	2.40	252	1.31
Peprilus paru	2.40	72	1.31
Scomberomorus cavalla	2.40	24	1.31
Cynoscion similis	1.80	10	0.98
OCOCYPHALLIDAE	1.20	12	0.66
Haemulon steindachneri	1.20	24	0.66
Uponemus parvus	1.20	36	0.66
Haemulon boschnae	1.20	132	0.66
Haemulon aurolineatum	1.20	36	0.66
Decapterus punctatus	1.20	96	0.66
Calamus bajonado	1.20	2	0.66
Haemulon macrostomum	1.20	4	0.66
Lutjanus purpurus	1.20	10	0.66
Priacanthus arenatus	1.00	2	0.55
Cynoscion jamaicensis	0.40	2	0.22
Penaeus subtilis	0.30	16	0.16
Gymnothorax ocellatus	0.00		
Anchoa hepsetus	0.00	12	
Chirocentron bloekerianus	0.00	48	
Opisthonema oglinum	0.00	12	
Total	102.90	100.07	

PROJECT STATION: 113
 DATE: 12/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1024 Long W 6029
 start stop duration
 TIME : 12:20 12:50
 LOG : 2236.00 2236.20 0.20
 FDEPTH: 81 76
 DDEPTH: 81 76
 Towing dir: 340° Wire out: 450 m Speed: 11 kn*10
 Sorted: 56 Kg Total catch: 56.20 CATCH/HOUR: 112.40

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Lutjanus analis	61.60	8	54.80
Selene setapinnis	16.60	172	14.77
Uponemus parvus	9.60	250	8.54
Loligo pailoi	9.60	534	8.54
Lutjanus purpurus	4.40	10	3.91
Trichurus lepturus	2.60	214	2.31
Mustelus canis	1.80	2	1.60
Saurida brasiliensis	1.10	12	0.98
Pristigaster macrocephalus	1.10	12	0.98
Rhomboplites aurorubens	1.00	2	0.89
Cynoscion jamaicensis	1.00	2	0.89
Peprilus paru	1.00	10	0.89
Sphyræna guanchano	0.60	2	0.53
Priacanthus arenatus	0.20	2	0.18
Penaeus notialis	0.10	6	0.09
Rachycentron canadus	0.10	2	0.09
Gymnothorax ocellatus	0.00		
Selar crumenophthalmus	0.00	2	
Total	112.40	99.99	

PROJECT STATION: 114
 DATE: 12/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1018 Long W 6016
 start stop duration
 TIME : 16:08 17:08
 LOG : 2261.50 2261.70 0.20
 FDEPTH: 215 191
 DDEPTH: 215 191
 Towing dir: 215° Wire out: 900 m Speed: 17 kn*10
 Sorted: 11 Kg Total catch: 120.70 CATCH/HOUR: 120.70

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
MYCTOPHIDAE	65.60	35061	54.35
Ariconea bondi	11.20	116	9.20
Trichurus lepturus	9.60	192	7.95
Nealotus tripes	7.20	192	5.97
Synagrops sp.	6.40	800	5.30
Steindachneria argenta	4.80	624	3.98
Pristigaster macrocephalus	3.60	36	2.98
Polymixia lowei	3.20	240	2.65
Ilex illocebrosus	3.20	24	2.65
Penaeopsis serrata	1.60	416	1.33
Parasudis trunculatus	1.60	224	1.33
Solenocera sp	0.80	16	0.66
Lestrolepis intermedia	0.80	64	0.66
Antigonia combata	0.80	16	0.66
Decapterus tabl	0.30	1	0.25
Citharichthys cornutus	0.00	16	
Total	120.70	100.00	

PROJECT STATION: 115
 DATE: 12/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1017 Long W 6009
 start stop duration
 TIME : 20:50 21:20
 LOG : 2288.70 2289.60 0.90
 FDEPTH: 300 365
 DDEPTH: 300 365
 Towing dir: 325° Wire out: 1250 m Speed: 15 kn*10
 Sorted: 19 Kg Total catch: 42.40 CATCH/HOUR: 84.80

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
SOLENOGERIDAE	26.80	712	31.60
Penaeopsis serrata	12.60	2250	14.86
Steindachneria argenta	11.80	390	13.92
SOLENOGERIDAE	8.20	604	9.67
Squatina sp	5.40	2	6.37
Bathynomus giganteus	4.00	6	4.72
Parasudis sp	3.00	40	3.54
Trichurus lepturus	2.40	74	2.83
Polymixia lowei	2.00	26	2.36
Pleoticus robustus	1.80		2.12
Chauliodon sloani	1.20	96	1.42
Diaphus sp	1.00	184	1.18
Zenion sp.	1.00	140	1.18
Squalus sp.	0.80	2	0.94
Polychelus sp.	0.60	34	0.71
Stenopteryx sp	0.40	64	0.47
Ilex illocebrosus	0.30	2	0.35
Polymetne corythaeola	0.20	200	0.24
Lestrolepis intermedia	0.20	16	0.24
OPHICHTHIDAE	0.20	2	0.24
Chaunax pictus	0.20	2	0.24
Onychoteuthis banksi	0.20	24	0.24
Etmopterus virons	0.20	4	0.24
Squaliolus laticaudus	0.20	4	0.24
Nephropsis sp	0.10	24	0.12
Neopinnula orientalis	0.00	8	
Pontinus sp.	0.00	4	
Gurgesiella atlantica	0.00	4	
PIRURONECTIDAE	0.00	4	
BOTIIDAE	0.00	4	
Rossia sp	0.00	4	
Glyphocrangon sp	0.00	20	
Plesionika sp	0.00	2	
Total	84.80	100.04	

PROJECT STATION: 116
 DATE: 13/ 2/88 GEAR TYPE: DL No:2 POSITION: Lat N 1017 Long W 6027
 start stop duration
 TIME : 00:35 10:00
 LOG : 2310.00 2311.00 1.00
 FDEPTH: 80 79
 DDEPTH: 80 79
 Towing dir: 270° Wire out: 360 m Speed: kn*10
 Sorted: 5 Kg Total catch: 5.70 CATCH/HOUR: 0.61

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Carcharhinus sp	0.35		57.30
Carcharhinus acronotus	0.18		29.51
Rhizoprionodon porosus	0.07		11.48
Total	0.60		98.37

PROJECT STATION: 117
 DATE: 13/ 2/88 GEAR TYPE: DL No:2 POSITION: Lat N 1018 Long W 6029
 start stop duration
 TIME : 01:00 08:45
 LOG : 2312.90 2375.00 2.10
 FDEPTH: 71 71
 DDEPTH: 71 71
 Towing dir: 270° Wire out: 360 m Speed: kn*10
 Sorted: 8kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
NO CATCH	0.00		
Total			

PROJECT STATION: 118
 DATE: 13/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1016 Long W 6052
 start stop duration
 TIME : 05:16 05:46
 LOG : 2345.10 2346.40 1.30
 FDEPTH: 0 0
 DDEPTH: 28 26
 Towing dir: 340° Wire out: 50 m Speed: 26 kn*10
 Sorted: 10 Kg Total catch: 262.40 CATCH/HOUR: 524.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Engraulis eurystole	167.00	55666	31.02
Anchoa lyolepis	125.20	69690	23.86
Cynoscion steindachneri	46.80	1422	8.92
Trichurus lepturus	32.40	6168	6.17
sardinella aurita	20.80	2296	3.96
Opisthonema oglinum	20.80	4176	3.96
Chirocentron bloekerianus	20.80	11440	3.96
Sphyræna plicidilla	14.40	72	2.74
Uponemus parvus	10.80	450	2.06
Calamus bajonado	9.00	18	1.71
Selene setapinnis	9.00	54	1.71
Dactylopterus volitans	5.40	18	1.03
Peprilus paru	5.40	18	1.03
Lutjanus synagris	4.80	22	0.91
Haemulon bonariense	4.20	8	0.80
Sphyræna guanchano	3.60	18	0.69
Albulu vulpes	3.60	18	0.69
Chloroscombrus chrysurus	3.40	8	0.65
Priacanthus arenatus	3.00	2	0.57
Lutjanus joco	2.60	36	0.50
Haemulon aurolineatum	2.20	4	0.42
Lutjanus griseus	2.20	4	0.42
Haemulon steindachneri	1.00	90	0.34
Holocentrus rufus	1.80	8	0.34
Alutrus sp	1.80	2	0.34
Anisotremus virginicus	0.60	2	0.11
GERRRIDAE	0.00	208	
Total	524.00		99.90

DATE: 12/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 628 Long W 5447
 TIME : 23:00 start stop duration Purpose code: 3
 LOG : 19411.10 9412.40 1.30 Area code : 1
 PDEPTH: 31 32 GearCond.code: 1
 BDEPTH: 31 32 Validity code:
 Towing dir: 280° Wire out: 125 m Speed: 25 kn*10
 Sorted: 15 Kg Total catch: 15.15 CATCH/HOUR: 30.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa sp	16.80	3332	55.45	
Hemicaranx amblyrhynchus	3.00	14	9.90	
Anchoa sp	2.80	476	9.24	
Trichiurus lepturus	2.20	108	7.26	
Peprilus paru	2.00	24	6.60	
Pallona harroweri	1.00	178	3.30	
Panesus subtilis	0.80	50	2.64	36
Scomberomorus brasiliensis	0.80	2	2.64	
Pallona harroweri	0.20	180	0.66	
Chirocentrodon bleekarianus	0.20	80	0.66	
Cynoscion virescens	0.20	6	0.66	
Harengula jaguana	0.20	6	0.66	
Siriaps, small, non com.	0.10	34	0.33	
Total	30.30		100.00	

DATE: 12/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 711 Long W 5526
 TIME : 17:30 start stop duration Purpose code: 3
 LOG : 19541.80 9542.90 1.10 Area code : 1
 PDEPTH: 82 82 GearCond.code: 1
 BDEPTH: 82 82 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: 24 kn*10
 Sorted: 124 Kg Total catch: 124.90 CATCH/HOUR: 249.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selar crumenophthalmus	73.00		29.22	50
Rhomboplites aurorubens	69.00		27.62	52
Scomberomorus regalis	59.40	14	23.78	53
Lutjanus purpurus	33.80	6	13.53	54
Trachurus lathami	4.40	68	1.76	51
Peprilus paru	2.40	14	0.96	
Rhisorionodon lalandii	2.20	2	0.88	
Upeneus parvus	1.60	20	0.64	
Sardinella aurita	1.60	14	0.64	
Priacanthus arenatus	1.20	4	0.48	
Synodus synodus	0.60	6	0.24	
Hemicaranx amblyrhynchus	0.40	2	0.16	
Pristipomoides freemani	0.20	6	0.08	
Panesus brasiliensis	0.00	2		
TRIGLIDAE	0.00	4		
Total	249.80		99.99	

PROJECT STATION: 17
 DATE: 12/26/88 GEAR TYPE: BT No:1 POSITION: Lat N 700 Long W 5500
 TIME : 05:58 start stop duration Purpose code: 3
 LOG : 19478.80 9480.30 1.50 Area code : 1
 PDEPTH: 60 62 GearCond.code: 1
 BDEPTH: 60 62 Validity code:
 Towing dir: Wire out: 350 m Speed: 33 kn*10
 Sorted: 25 Kg Total catch: 86.10 CATCH/HOUR: 172.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	73.80	4200	42.86	38
Rhomboplites aurorubens	55.20	1350	32.06	39
Lutjanus analis	14.00	2	8.13	
Chloroscombrus chrysurus	7.20	84	4.18	
Illex sp	5.40	384	3.14	37
Priacanthus arenatus	5.40	42	3.14	
Peprilus paru	2.40	12	1.39	
Carcharhinus signatus	2.20	2	1.20	
Epinephelus flavolimbatus	1.80	6	1.05	
Cyclopoeta chittendeni	1.40	4	0.81	
Saurida brasiliensis	1.20	18	0.70	
Synodus saurus	0.80	12	0.70	
Diplodus formosus	0.80	6	0.46	
TRIGLIDAE	0.60	24	0.35	
Citharichthys sp	0.00	6		
Prionotus sp	0.00	6		
Selar crumenophthalmus	0.00	12		
Total	172.20		100.01	

PROJECT STATION: 22
 DATE: 12/26/88 GEAR TYPE: BT No:1 POSITION: Lat N 700 Long W 5520
 TIME : 19:47 start stop duration Purpose code: 3
 LOG : 19559.10 9561.40 2.30 Area code : 1
 PDEPTH: 50 50 GearCond.code: 1
 BDEPTH: 50 50 Validity code:
 Towing dir: 270° Wire out: 225 m Speed: 22 kn*10
 Sorted: 32 Kg Total catch: 39.70 CATCH/HOUR: 39.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	21.60	464	54.41	55
Hemicaranx amblyrhynchus	5.10	31	12.85	57
EMBELICHTHIDAE	3.50	315	0.82	
Decapterus tabl	2.70	64	6.00	58
Trachurus lathami	1.20	116	3.02	56
Chloroscombrus chrysurus	1.00	60	2.52	
Rhomboplites aurorubens	0.70	37	1.76	
Selar crumenophthalmus	0.60	6	1.51	
Synodus saurus	0.40	24	1.01	
TRIGLIDAE	0.40	1	1.01	
Sphyrna guachancho	0.40	1	1.01	
Pristipomoides macrophthalmus	0.40	7	1.01	
Loligo pealei	0.40	10	1.01	
Upeneus parvus	0.40	20	1.01	
Scomberomorus sp	0.20	2	0.50	
Prionotus sp	0.20	1	0.50	
Peprilus paru	0.20	1	0.50	
Priacanthus arenatus	0.20	1	0.50	
Hirundichthys speculiger	0.10	4	0.25	
Dactylopterus volitans	0.00	2		
FISULARIDAE	0.00	1		
OPHIIDIIDAE	0.00	1		
Priacanthus sp	0.00	4		
DIODONTIDAE	0.00	1		
Selene sp	0.00	19		
Total	39.70		100.00	

PROJECT STATION: 18
 DATE: 12/26/88 GEAR TYPE: BT No:1 POSITION: Lat N 715 Long W 5455
 TIME : 08:33 start stop duration Purpose code: 3
 LOG : 19500.00 9501.70 1.70 Area code : 1
 PDEPTH: 79 80 GearCond.code: 1
 BDEPTH: 79 80 Validity code:
 Towing dir: 265° Wire out: 450 m Speed: 25 kn*10
 Sorted: 70 Kg Total catch: 69.55 CATCH/HOUR: 99.36

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus purpurus	19.43	10	19.56	40
Selar crumenophthalmus	14.57	161	14.66	41
Rhomboplites aurorubens	14.14	126	14.23	43
Pristipomoides macrophthalmus	11.00	153	11.07	
Priacanthus arenatus	8.86	53	8.92	
Trachurus lathami	8.57	109	8.63	42
Carcharhinus signatus	8.43	10	8.48	
Scomberomorus regalis	3.57	1	3.59	
Peprilus paru	3.43	26	3.45	
Sphyrna guachancho	2.71	7	2.73	
Selene spixii	2.71	14	2.73	
Illex sp	1.64	69	1.65	
Panesus sp	0.29	1	0.29	
Decapterus tabl	0.00	1		
Upeneus parvus	0.00	1		
Total	99.35		99.99	

PROJECT STATION: 23
 DATE: 12/27/88 GEAR TYPE: BT No:2 POSITION: Lat N 630 Long W 5534
 TIME : 00:37 start stop duration Purpose code: 1
 LOG : 19597.10 9597.80 0.70 Area code : 1
 PDEPTH: 20 22 GearCond.code: 1
 BDEPTH: 22 24 Validity code:
 Towing dir: 280° Wire out: 75 m Speed: 14 kn*10
 Sorted: 31 Kg Total catch: 697.00 CATCH/HOUR: 1394.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Opisthonema oglinus	1258.40	29790	90.27	59
Sardinella aurita	61.60	1804	4.42	60
Saurida brasiliensis	39.60	19080	2.84	
Loligo pealei	22.00	1848	1.58	
Chloroscombrus chrysurus	6.60	440	0.47	
Carcharhinus limbatus	5.80	2	0.42	
Upeneus parvus	0.00	132		
Trachurus lathami	0.00	44		
Total	1394.00		100.00	

PROJECT STATION: 19
 DATE: 12/26/88 GEAR TYPE: BT No:1 POSITION: Lat N 723 Long W 5459
 TIME : 10:43 start stop duration Purpose code: 3
 LOG : 19513.90 9514.90 1.00 Area code : 1
 PDEPTH: 118 118 GearCond.code: 8
 BDEPTH: 118 118 Validity code: 9
 Towing dir: 265° Wire out: 500 m Speed: 26 kn*10
 Sorted: 6 Kg Total catch: 6.10 CATCH/HOUR: 12.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	5.20	6	42.62	44
Pristipomoides macrophthalmus	4.20	64	34.43	
Pristipomoides freemani	1.40	38	11.48	
Hemanthina leptus	1.40	2	11.48	
Total	12.20		100.01	

PROJECT STATION: 24
 DATE: 12/27/88 GEAR TYPE: BT No:1 POSITION: Lat N 623 Long W 5517
 TIME : 06:10 start stop duration Purpose code: 3
 LOG : 19645.40 9646.70 1.30 Area code : 1
 PDEPTH: 20 28 GearCond.code: 3
 BDEPTH: 20 20 Validity code: 9
 Towing dir: 270° Wire out: 100 m Speed: 20 kn*10
 Sorted: 5 Kg Total catch: 4.95 CATCH/HOUR: 9.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scomberomorus brasiliensis	9.00	16	90.91	61
Opisthonema oglinus	0.90	6	9.09	
Sardinella aurita	0.00	2		
Total	9.90		100.00	

PROJECT STATION: 20
 DATE: 12/26/88 GEAR TYPE: BT No:1 POSITION: Lat N 711 Long W 5512
 TIME : 15:40 start stop duration Purpose code: 3
 LOG : 19531.10 9532.10 1.00 Area code : 1
 PDEPTH: 79 79 GearCond.code: 8
 BDEPTH: 79 79 Validity code:
 Towing dir: 305° Wire out: 400 m Speed: 21 kn*10
 Sorted: 63 Kg Total catch: 63.60 CATCH/HOUR: 127.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	32.20	204	25.31	48
Rhisorionodon	24.20	26	19.03	
Hemicaranx amblyrhynchus	19.20	116	15.09	
Selar crumenophthalmus	13.40	132	10.53	46
Lutjanus purpurus	11.20	20	8.81	49
Scomberomorus regalis	10.20	6	8.02	47
Trachurus lathami	4.40	292	3.46	45
Sphyrna guachancho	3.80	8	2.99	
Priacanthus arenatus	3.20	14	2.52	
Peprilus paru	3.00	22	2.36	
Loligo pealei	2.40	98	1.89	
Total	127.20		100.01	

DATE:24/1/88 PROJECT STATION: 713
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 713 Long W 5410
 TIME : 1355 1425 30 (min) Purpose code: 3
 LOG :9144.50 9145.20 1.70 Area code : 1
 FDEPTH: 82 80 GearCond.code:
 BDEPTH: 82 80 Validity code:
 Towing dir: 215° Wire out: 400 m Speed: 34 kn*10
 Sorted: 109 Kg Total catch: 109.25 CATCH/HOUR: 218.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Rhomboplites aurorubens	54.00	24.71	10
Lutjanus purpureus	50.00	22.88	
Trachurus lathami	44.00	20.14	9
Pristipomoides macrophthalmaus	32.80	15.01	11
Haemulon sp	12.00	5.49	
Sphyræna picudilla	8.00	3.66	
Sphyræna guachancho	7.00	3.20	
Illex sp	2.50	1.15	
Selene spixii	2.20	1.01	
Priacanthus arenatus	2.00	0.92	
Upeneus parvus	1.40	0.64	
Boyllarides dolfofi	1.00	0.46	
Peristadion sp	0.40	0.18	
Diplacrum formosum	0.30	0.14	
Decapterus tabl	0.30	0.14	
Sardinella aurita	0.30	0.14	
Kucinostomus gula	0.20	0.09	
Penaeus brasiliensis	0.00	0.00	
Paralichthys sp	0.00	0.00	
Prionotus sp	0.00	0.00	
Total	218.50	100.00	

DATE:24/1/88 PROJECT STATION: 707
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 707 Long W 5414
 TIME : 15129 15159 30 (min) Purpose code: 3
 LOG :9154.40 9155.60 1.20 Area code : 1
 FDEPTH: 76 76 GearCond.code:
 BDEPTH: 76 76 Validity code:
 Towing dir: 344° Wire out: 400 m Speed: 24 kn*10
 Sorted: 86 Kg Total catch: 86.35 CATCH/HOUR: 172.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Rhomboplites aurorubens	55.00	31.85	12
Lutjanus purpureus	34.60	20.03	13
Selær crumenophthalmus	22.00	12.74	14
Sphyræna guachancho	21.00	12.16	
Scomberomorus cavalla	9.20	5.33	
Trachurus lathami	4.20	2.43	
Illex sp	3.60	2.08	
Haemulon sp	3.40	1.97	
Priacanthus arenatus	3.00	1.74	
Chloroscombrus chrysurus	2.80	1.62	
Myxeroperca intorstitialis	2.20	1.27	
Caracharinus sp	2.00	1.16	
Albula vulpes	1.80	1.04	
Trichiurus lepturus	1.60	0.93	
Selene spixii	1.60	0.93	
Peprilus paru	1.40	0.81	
Pristipomoides macrophthalmaus	1.20	0.69	
Cynoscion striatis	0.80	0.46	
Synodus saurus	0.40	0.23	
Penaeus brasiliensis	0.30	0.17	
Chaetodon sp	0.20	0.12	
Upeneus parvus	0.20	0.12	
Prionotus sp	0.10	0.06	
Prionotus sp	0.10	0.06	
Diplacrum sp	0.00	0.00	
Total	172.70	100.00	

DATE:24/1/88 PROJECT STATION: 10
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 722 Long W 5418
 TIME : 17156 18126 30 (min) Purpose code: 3
 LOG :9173.00 9174.50 1.50 Area code : 1
 FDEPTH: 111 111 GearCond.code:
 BDEPTH: 111 111 Validity code:
 Towing dir: 270° Wire out: 500 m Speed: 30 kn*10
 Sorted: 30 Kg Total catch: 223.70 CATCH/HOUR: 447.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Pristipomoides macrophthalmaus	161.00	35.99	18
Trachurus lathami	85.00	19.40	16
Selær crumenophthalmus	72.00	16.09	15
Saurida brasiliensis	60.20	13.46	17
Upeneus parvus	30.00	6.71	
Lutjanus purpureus	14.40	3.22	
Cubiiceps sp	7.00	1.56	
Diplacrum sp	5.60	1.25	
Trichlosetta sp	3.00	0.67	
Illex sp	2.60	0.58	
Prionotus sp	2.00	0.45	
Rhomboplites aurorubens	1.40	0.31	
Cauiolactilus intermedius	1.40	0.31	
Holacanthus trioclar	0.60	0.13	
Shrimps, small, non comm.	0.00		
Porichthys sp	0.00	0.00	
OPHICHTHIDAE	0.00	0.00	
SCORPAENIDAE	0.00	0.00	
Total	448.00	100.13	

DATE:24/1/88 PROJECT STATION: 11
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 740 Long W 5424
 TIME : 20:34 21:34 60 (min) Purpose code: 3
 LOG :9194.30 9198.00 3.70 Area code : 1
 FDEPTH: 402 402 GearCond.code:
 BDEPTH: 402 402 Validity code:
 Towing dir: 250° Wire out:1600 m Speed: 35 kn*10
 Sorted: 21 Kg Total catch: 132.80 CATCH/HOUR: 132.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Polymixia sp	51.60	38.86	20
MACROURIDAE	39.00	29.37	
APOGONIDAE	17.10	12.88	
Parasudis sp	9.00	6.78	
Malacocephalus sp	4.80	3.61	
Illex sp	3.00	2.26	
Sphageacanthus grenadno	3.00	2.26	
Morruccius albidus	2.15	1.62	
S H R E W S	1.30	0.98	
Plecticus robustus	1.10	0.83	19
POLYCHETIDAE	0.75	0.56	
CHAURACIDAE	0.00	0.00	
Scombrops sp	0.00	0.00	
Poecilopsetta sp	0.00	0.00	
Peristadion sp	0.00	0.00	
Dibranchus sp	0.00	0.00	
Plesiopeneus oikardianus	0.00	0.00	
Total	132.80	100.01	

DATE:25/1/88 PROJECT STATION: 701
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 701 Long W 5449
 TIME : 08:29 08:59 30 (min) Purpose code: 3
 LOG :9288.80 9290.40 1.60 Area code : 1
 FDEPTH: 64 64 GearCond.code:
 BDEPTH: 64 64 Validity code:
 Towing dir: 280° Wire out: 350 m Speed: 31 kn*10
 Sorted: 52 Kg Total catch: 176.80 CATCH/HOUR: 353.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Chloroscombrus chrysurus	97.80	27.66	26
Decapterus sp	75.60	21.38	24
Lutjanus purpureus	28.20	7.98	21
Priacanthus arenatus	24.00	6.79	
Selene spixii	24.00	6.79	
Selær crumenophthalmus	19.20	5.43	23
Illex sp	14.40	4.07	
Peprilus paru	13.80	3.90	
Pristipomoides macrophthalmaus	12.00	3.39	25
Sphyræna picudilla	9.60	2.71	
Rhomboplites aurorubens	6.40	1.82	22
Trachinotus cayennensis	4.80	1.36	
Sphyræna lewini	4.20	1.19	
Hemiramphus amblyrhynchus	3.60	1.02	
Opisthonesma oglinus	3.00	0.85	
Caracharinus signatus	2.20	0.62	
POMADASYIDAE	1.80	0.51	
Upeneus parvus	1.60	0.45	
Synodus saurus	1.40	0.40	
Sardinella aurita	1.20	0.34	
Trichiurus lepturus	1.20	0.34	
Cynoscion sp	1.20	0.34	
Penaeus brasiliensis	0.80	0.23	
Balistas vetula	0.80	0.23	
EXOCETIDAE	0.80	0.23	
Total	353.60	100.02	

DATE:25/1/88 PROJECT STATION: 13
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 5430 Long W 5430
 TIME : 11:18 11:48 30 (min) Purpose code: 3
 LOG :9310.20 9312.30 2.10 Area code : 1
 FDEPTH: 44 42 GearCond.code:
 BDEPTH: 44 42 Validity code:
 Towing dir: 180° Wire out: 300 m Speed: 40 kn*10
 Sorted: 57 Kg Total catch: 136.20 CATCH/HOUR: 272.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Orthopristis ruber	128.00	46.99	28
Chloroscombrus chrysurus	33.60	12.33	29
Peprilus paru	20.00	7.34	
Lutjanus synagris	11.40	4.19	30
Scomberomorus regalis	11.00	4.04	
Cynoscion sp	10.00	3.67	27
Oligoplites pelometa	10.00	3.67	
Selene spixii	10.00	3.67	
Sphyræna picudilla	7.60	2.79	
Hemiramphus amblyrhynchus	7.20	2.64	
Sphyræna guachancho	5.60	2.06	
Caracharinus signatus	4.40	1.62	
Illex sp	2.80	1.03	
Mustelus omis	2.00	0.73	
Trichiurus lepturus	1.80	0.66	
Lutjanus sp	1.60	0.59	
Priacanthus arenatus	1.60	0.59	
Conodon nobilis	1.40	0.51	
Dactylopterus volitans	0.80	0.29	
OCCURPIIDAE	0.40	0.15	
Scorbridae Juveniles	0.40	0.15	
Opisthonesma oglinus	0.40	0.15	
Synodus sp	0.20	0.07	
Upeneus parvus	0.20	0.07	
Penaeus subtilis	0.00	0.00	
Total	272.40	100.00	

DATE:25/1/88 PROJECT STATION: 14
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 625 Long W 5429
 TIME : 14:30 14:55 25 (min) Purpose code: 3
 LOG :9337.20 9338.10 0.90 Area code : 1
 FDEPTH: 25 26 GearCond.code:
 BDEPTH: 25 26 Validity code:
 Towing dir: 280° Wire out: 150 m Speed: 28 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Larimus breviceps	0.00		
Oligoplites pelometa	0.00		
Penaeus subtilis	0.00		31
Macrodon ancylodon	0.00		
Micropogonias furnieri	0.00		
Nebria microps	0.00		
Cynoscion acoupa	0.00		
Total	0.00		

DATE:25/1/88 PROJECT STATION: 15
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 621 Long W 5426
 TIME : 17:33 18:03 30 (min) Purpose code: 3
 LOG :9357.10 9358.10 1.00 Area code : 1
 FDEPTH: 21 21 GearCond.code:
 BDEPTH: 21 21 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 24 kn*10
 Sorted: 21 Kg Total catch: 94.40 CATCH/HOUR: 188.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Trichiurus lepturus	85.20	45.13	
Sphyræna lewini	12.80	6.78	
Caracharinus signatus	11.80	6.25	
Cynoscion virescens	11.50	6.09	
Odonotnathus macronotus	11.40	6.04	
Scomberomorus brasiliensis	9.00	4.77	33
Anchoa mitchilli	7.80	4.13	34
Trachinotus cayennensis	5.80	3.07	
Peprilus paru	5.40	2.86	
Isopisthus parvipinnis	4.80	2.54	
Xiphopenaeus kryxeri	4.20	2.22	35
Harengula jagana	4.20	2.22	
Arius grandioceus	2.80	1.48	
Macrodon ancylodon	2.40	1.27	
Sphyræna guachancho	2.40	1.27	
Bagre bagre	2.20	1.17	
Solenoides juveniles	1.20	0.64	
Anchoa mitchilli	1.20	0.64	
Lolliguncula brevis	1.20	0.64	
Penaeus subtilis	1.00	0.53	
Nematopalaeon schmitti	0.60	0.32	32
Selene sp	0.00		
Total	188.80	100.06	

PROJECT STATION: 33
 DATE: 20/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 716 Long W 5608
 start stop duration Purpose code: 3
 TIME : 12:24 12:54 30 (min) Area code : 1
 LOG : 9900.50 9902.50 2.00 GearCond.code: 1
 FDEPTH: 89 92 Validity code:
 DDEPTH: 89 92
 Towing dir: 100° Wire out: 450 m Speed: 39 kn*10
 Sorted: 21 Kg Total catch: 106.40 CATCH/HOUR: 212.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus purpureus	127.20	76	59.77	95
Trachurus lathami	35.60	514	16.73	96
Pristigaster macrophthalmus	31.20	240	14.66	97
Sardinella aurita	11.20	224	5.26	98
Rhomboplites aurorubens	5.20	64	2.44	99
Loligo pealei	2.00	60	0.94	
Haemulon striatum	0.40	16	0.19	
Decapterus punctatus	0.00	4		
Upeneus parvus	0.00	4		
Total	212.80		99.99	

PROJECT STATION: 30B
 DATE: 29/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 620 Long W 5630
 start stop duration Purpose code: 3
 TIME : 05:50 06:20 30 (min) Area code : 1
 LOG : 39.20 41.30 2.10 GearCond.code: 1
 FDEPTH: 17 18 Validity code:
 DDEPTH: 17 18
 Towing dir: 90° Wire out: 100 m Speed: 39 kn*10
 Sorted: 34 Kg Total catch: 415.60 CATCH/HOUR: 831.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	162.00	12504	19.49	
Isopisthus parvipinnis	110.40	5410	13.28	116
Anchoa sp	110.40	7134	13.28	116
Macrurus ancylodon	98.20	2220	11.81	115
Anchoa hepsetus	86.40	19160	10.39	118
Scomberomorus brasiliensis	43.60	34	5.25	113
Stellifer sp	43.20	3072	5.20	
Odontognathus macronotus	38.40	2896	4.62	
Odontaspis macronotus	33.60	10864	4.04	117
Haemulon striatum	22.60	194	2.72	
Bass argenteus	21.60	480	2.60	
Peprilus paru	19.20	36	2.31	
Rhizoprionodon lalandii	17.50	6	2.11	114
Cynoscion virescens	4.80	96	0.50	
Sphyrna guachancho	4.80	1600	0.50	
Xiphopomus kroyeri	4.00	6	0.50	
Microgobius furnieri	3.36	480	0.40	
Lolliguncula breviuscula	3.00	2	0.36	
Chaetodipterus faber	2.00	2	0.34	
Rhizoprionodon porosus	0.60	2	0.07	
Sphaeroides tentudinens	0.00	40		
Arius grandicaudis	0.00	40		
Arius sp	0.00	40		
Selene sp	0.00	40		
Chloroscombrus chrysurus	0.00	528		
Pellona sp	0.00	40		
Paralichthys brasiliensis	0.00	144		
Myxengraulis grossidens	0.00			
Total	831.20		100.01	

PROJECT STATION: 34
 DATE: 20/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 706 Long W 5614
 start stop duration Purpose code: 3
 TIME : 14:33 15:03 30 (min) Area code : 1
 LOG : 9917.30 9919.40 2.10 GearCond.code: 1
 FDEPTH: 70 68 Validity code:
 DDEPTH: 70 68
 Towing dir: 140° Wire out: 350 m Speed: 30 kn*10
 Sorted: 31 Kg Total catch: 252.20 CATCH/HOUR: 504.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	211.20	23232	41.87	100
Rhomboplites aurorubens	153.60	6104	30.45	101
Sardinella aurita	92.80	3368	18.40	102
Decapterus punctatus	20.80	544	4.12	103
Lutjanus purpureus	12.80	32	2.54	
Pristigaster macrophthalmus	4.80	128	0.95	
Haemulon sp	3.20	272	0.63	
Solar crumenophthalmus	2.40	120	0.48	
Eucinostomus gula	1.60	64	0.32	
Loligo pealei	1.60	256	0.32	
Krusius torus	0.00	16		
Ariomma bondi	0.00	32		
Total	504.40		100.00	

PROJECT STATION: 39
 DATE: 29/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 620 Long W 5618
 start stop duration Purpose code: 3
 TIME : 07:56 08:26 30 (min) Area code : 1
 LOG : 55.00 58.00 2.20 GearCond.code: 1
 FDEPTH: 30 32 Validity code:
 DDEPTH: 30 32
 Towing dir: 80° Wire out: 200 m Speed: 45 kn*10
 Sorted: 29 Kg Total catch: 902.60 CATCH/HOUR: 1965.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion acoupa	880.00	47034	44.78	
Trichiurus lepturus	188.00	652	7.49	121
Sphyrna guachancho	147.20	1680	7.33	
Ctenosciaena gracilicirrus	144.00	20460	5.29	
Anchoa sp	104.00	48186	5.29	
Anchoa hepsetus	104.00	10960	5.29	
Opisthonema oglinum	72.00	1840	3.66	
Pellona harroweri	56.00	208	2.85	
Odontognathus compressus	56.00	640	2.85	
Selene sp	36.00	160	1.83	
Peprilus paru	23.60	42	1.20	
Microgobius furnieri	19.60	32	0.48	119
Lutjanus syncaerus	5.20	12	0.42	
Pomatomus saltatrix	8.20	8	0.42	120
Cynoscion virescens	8.20	28	0.42	
Orthopristis ruber	2.00	4	0.10	
Menticirrhus americanus	1.10	2	0.06	
Sphyrna lawii	1.00	2	0.05	
Pomatomus brasiliensis	1.00	6	0.05	
Pomatomus subtilis	1.00	6	0.05	
Chloroscombrus chrysurus	0.00	1040		
Sardinella aurita	0.00	160		
Pellona sp	0.00	80		
Conodon nobilis	0.00	2		
Total	1965.20		100.01	

PROJECT STATION: 35
 DATE: 20/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 716 Long W 5620
 start stop duration Purpose code: 3
 TIME : 16:18 16:48 30 (min) Area code : 1
 LOG : 9930.00 9931.90 1.10 GearCond.code: 1
 FDEPTH: 80 83 Validity code:
 DDEPTH: 80 83
 Towing dir: 320° Wire out: 450 m Speed: 22 kn*10
 Sorted: 33 Kg Total catch: 134.50 CATCH/HOUR: 269.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Solar crumenophthalmus	126.40	2226	46.99	104
Trachurus lathami	64.80	1764	24.09	105
Ariomma bondi	26.40	352	9.81	
Rhomboplites aurorubens	18.40	416	6.84	106
Loligo pealei	14.40	1934	5.35	107
Decapterus punctatus	8.00	224	2.97	
Pristigaster macrophthalmus	5.60	112	7.08	
Upeneus parvus	2.40	64	0.89	
Sardinella aurita	2.40	80	0.89	
Priacanthus arenatus	0.20	2	0.07	
Ariomma regium	0.00	8		
Total	269.00		99.98	

PROJECT STATION: 40
 DATE: 29/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 635 Long W 5615
 start stop duration Purpose code: 3
 TIME : 10:29 10:59 30 (min) Area code : 1
 LOG : 76.70 76.70 GearCond.code: 1
 FDEPTH: 32 32 Validity code: 2
 DDEPTH: 32 32
 Towing dir: 270° Wire out: 200 m Speed: 30 kn*10
 Sorted: 171 Kg Total catch: 171.60 CATCH/HOUR: 343.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus griseus	123.00	36	35.80	122
Chaetodipterus faber	105.40	54	30.60	123
Rhomboplites aurorubens	23.20	126	6.75	125
Lutjanus purpureus	19.00	6	5.53	124
Calamus calamus	16.40	44	4.77	127
Caranx sp	11.40	18	3.32	
Haemulon aurolineatum	11.40	96	3.32	126
Lutjanus analis	8.80	2	2.56	128
Danysia americana	7.60	2	2.21	
Haemulon steindachneri	4.40	22	1.28	129
Lutjanus syncaerus	3.20	12	0.93	130
Scomberomorus brasiliensis	2.50	2	0.73	
Pomatomus subtilis	1.00	2	0.52	
Sphyrna guachancho	1.80	8	0.52	
Anisotremus virginicus	1.20	166	0.35	
Decapterus sp	0.60	2	0.17	
Balistes vetula	0.40	4	0.12	
Trachurus lathami	0.30	2	0.09	
Orthopristis ruber	0.30	2	0.09	
Total	343.60		100.00	

PROJECT STATION: 36
 DATE: 20/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 721 Long W 5624
 start stop duration Purpose code: 3
 TIME : 17:43 18:13 30 (min) Area code : 1
 LOG : 9939.00 9941.30 1.50 GearCond.code: 1
 FDEPTH: 83 83 Validity code:
 DDEPTH: 83 83
 Towing dir: 275° Wire out: 450 m Speed: 30 kn*10
 Sorted: 19 Kg Total catch: 19.60 CATCH/HOUR: 39.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Solar crumenophthalmus	14.00	434	35.71	109
Trachurus lathami	10.80	266	27.55	110
Rhizoprionodon porosus	5.00	2	12.76	
Loligo pealei	3.60	108	9.18	108
Upeneus parvus	2.20	62	5.61	
Rhomboplites aurorubens	1.20	3	3.06	
Pristigaster macrophthalmus	0.90	18	2.30	
Priacanthus arenatus	0.60	4	1.53	
Ariomma regium	0.30	6	0.77	
Trachinocephalus myops	0.20	2	0.51	
Synodus synodus	0.20	6	0.51	
Sardinella aurita	0.20	6	0.51	
Pomatomus brasiliensis	0.00	2		
Total	39.20		100.00	

PROJECT STATION: 37
 DATE: 29/ 1/88 GEAR TYPE: PT No:2 POSITION: Lat N 629 Long W 5632
 start stop duration Purpose code: 1
 TIME : 01:12 01:42 30 (min) Area code : 1
 LOG : 9.10 10.20 1.10 GearCond.code: 1
 FDEPTH: 15 15 Validity code:
 DDEPTH: 29 29
 Towing dir: 270° Wire out: 75 m Speed: 20 kn*10
 Sorted: 32 Kg Total catch: 165.10 CATCH/HOUR: 330.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	175.00	19250	53.00	111
Opisthonema oglinum	107.00	6360	32.40	112
Saurida brasiliensis	18.00	4816	5.45	
Loligo pealei	10.00	1450	3.03	
Anchoa sp	8.00	340	2.42	
Chloroscombrus chrysurus	4.00	650	1.21	
Cynoscion lalandii	2.50	60	0.76	
Rhizoprionodon porosus	2.00	2	0.61	
Scomberomorus regalis	1.20	2	0.36	
Haemirhamphus intermedius	1.00	10	0.30	
Chirocentrodon bleekeri	1.00	140	0.30	
BATRACHOIDAL	0.00	30		
Decapterus punctatus	0.00	10		
Upeneus parvus	0.00	50		
Eucinostomus gula	0.00	10		
Total	329.70		99.84	

PROJECT STATION: 41
 DATE: 29/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 625 Long W 5632
 start stop duration Purpose code: 3
 TIME : 12:35 13:05 30 (min) Area code : 1
 LOG : 96.60 98.70 2.10 GearCond.code: 1
 FDEPTH: 28 28 Validity code:
 DDEPTH: 28 28
 Towing dir: 90° Wire out: 100 m Speed: 42 kn*10
 Sorted: 29 Kg Total catch: 68.05 CATCH/HOUR: 176.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	140.40	678	79.73	
Loligo pealei	10.80	60	6.13	131
Cynoscion acoupa	9.80	36	3.41	
Selene sp	6.00	6	2.04	
Sphyrna guachancho	3.60	12	1.70	
Chaetodipterus faber	3.60	12	1.02	
Haemirhamphus intermedius	1.80	12	0.34	
Chirocentrodon bleekeri	0.60	594	0.34	
Anchoa filifera	0.30	6	0.17	
Kyngraulis aurystole	0.00	6		
Sardinella aurita	0.00	6		
Total	176.10		100.00	

PROJECT STATION: 25
 DATE: 27/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 623
 start stop duration Long W 5519
 TIME : 06:57 07:27 30 (min) Purpose code: 3
 LOG : 9647.50 9650.00 2.50 Area code : 1
 FDEPTH: 28 29 GearCond.code: 1
 BDEPTH: 28 29 Validity code:
 Towing dir: 95° Wire out: 150 m Speed: 48 kn*10

Sorted: 83 Kg Total catch: 334.30 CATCH/HOUR: 668.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichinotus lepturus	195.00	2308	29.17
Macrondon ancyliodon	113.20	666	16.93
Isopisthus parvipinnis	79.00	1748	11.67
Cynoscion virgatus	45.60	30	6.82
Chloroscombrus chrysurus	39.80	328	5.95
Hemicaranx amblyrhynchus	19.40	110	2.90
Arius grandicaudus	19.00	14	2.84
Microgogonias furnieri	18.40	52	2.75
Lutjanus synagris	13.60	24	2.03
Prionotus punctatus	13.20	102	1.97
RAJIDAE	11.20	6	1.68
Anchoa sp	10.20	3202	1.53
Peprilus paru	9.40	32	1.41
Orthopristis ruber	9.00	538	1.35
Carcharhinus signatus	8.00	2	1.20
Glyptocheilus snucus	7.80	46	1.17
Odonotognathus compressus	7.00	1006	1.05
Bagre marinus	6.20	16	0.93
Bagre bagre	5.40	8	0.81
Conodon nobilis	4.60	8	0.69
Mustelus higmani	4.60	8	0.69
Menticirrhus americanus	3.80	8	0.57
Opisthonema oglinum	3.80	16	0.57
Rhizoprionodon lalandii	3.60	4	0.54
Scomberomorus brasiliensis	3.40	4	0.51
Harencula jaguana	2.40	24	0.36
Opionion venezuelae	2.40	102	0.36
Pellona harroweri	2.40	858	0.36
Penaeus subtilis	2.20	120	0.33
Sphyrna quachancho	1.80	2	0.27
Rhinolatos sp	1.00	2	0.15
Macrondon ancyliodon	0.80	156	0.12
CARCHARHINIDAE	0.80	8	0.12
Lutjanus brevicaudus	0.80	8	0.12
Acanthostracion quadricornis	0.80	8	0.12
Xiphopneustes kroyeri	0.80	54	0.12
Total	668.60	100.04	

PROJECT STATION: 26
 DATE: 27/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 615
 start stop duration Long W 5522
 TIME : 12:55 13:25 30 (min) Purpose code: 3
 LOG : 9708.70 9709.90 1.20 Area code : 1
 FDEPTH: 17 18 GearCond.code: 1
 BDEPTH: 17 18 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 29 kn*10

Sorted: 18 Kg Total catch: 18.00 CATCH/HOUR: 36.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Selene vomer	14.00	12	38.89
Scomberomorus brasiliensis	8.00	8	13.33
Trichurus lepturus	5.00	76	13.89
Rhizoprionodon sp	5.00	6	13.89
Chaetodipterus faber	4.00	2	11.11
Anchoviella sp	0.00	14	
Total	36.00	100.00	

PROJECT STATION: 27
 DATE: 27/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 621
 start stop duration Long W 5536
 TIME : 14:50 15:28 30 (min) Purpose code: 3
 LOG : 9724.50 9726.00 2.10 Area code : 1
 FDEPTH: 28 29 GearCond.code: 1
 BDEPTH: 28 29 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 50 kn*10

Sorted: 12 Kg Total catch: 741.50 CATCH/HOUR: 1483.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Anchoa sp	380.60	172534	25.66
Lutjanus synagris	282.40	408	19.04
Engraulis eurystole	253.80	91342	17.11
Opisthonema oglinum	203.00	25372	13.69
Anchoviella sp	126.00	29940	8.55
Orthopristis ruber	56.20	358	3.79
Chirocentron bleekeriannus	50.80	21312	3.43
Sphyrna quachancho	47.60	66	3.21
Rhizoprionodon lalandii	42.60	66	2.87
Sphyrna tiburo	25.60	18	1.73
Scomberomorus brasiliensis	5.40	4	0.36
Acanthostracion quadricornis	3.60	18	0.24
Pomatomus saltatrix	2.00	2	0.13
Selene apikii	1.80	18	0.12
Trichurus lepturus	0.80	18	0.05
Total	1483.00	99.98	

PROJECT STATION: 28
 DATE: 27/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 625
 start stop duration Long W 5547
 TIME : 17:21 17:51 30 (min) Purpose code: 3
 LOG : 9745.10 9747.60 2.50 Area code : 1
 FDEPTH: 29 28 GearCond.code: 1
 BDEPTH: 29 28 Validity code:
 Towing dir: 90° Wire out: 250 m Speed: 47 kn*10

Sorted: 32 Kg Total catch: 32.50 CATCH/HOUR: 65.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Loligo pealei	42.80	4744	65.05
Chloroscombrus chrysurus	11.40	324	17.54
Hemicaranx amblyrhynchus	3.80	20	5.05
Loligo beavis	1.60	176	2.46
Upeneus parvus	1.40	24	2.15
Eucinostomus havana	1.20	36	1.85
Selar crumenophthalmus	1.00	10	1.54
Scomberomorus cavalla	0.80	6	1.23
Opisthonema oglinum	0.60	6	0.92
Lutjanus synagris	0.40	6	0.62
Saurida sp juvenilis	0.00	4	
Anchoa sp	0.00	100	
Total	65.00	100.01	

PROJECT STATION: 29
 DATE: 27/ 1/88 GEAR TYPE: PT No:2 POSITION: Lat N 617
 start stop duration Long W 5552
 TIME : 20:03 20:33 30 (min) Purpose code: 1
 LOG : 9766.20 9767.40 1.20 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 24 25 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 25 kn*10

Sorted: 33 Kg Total catch: 1252.80 CATCH/HOUR: 2505.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Anchoa filifera	676.80	166492	27.01
Anchoa hepsetus	676.80	127238	27.01
Odonotognathus compressus	475.20	134414	18.97
Anchoa sp	410.40	103968	16.38
Sphyrna quachancho	112.00	362	4.50
Trachinotus cayennensis	86.40	72	3.45
Cynoscion jamaicensis	25.20	216	1.01
Scomberomorus brasiliensis	20.40	18	0.61
Pellona harroweri	10.80	144	0.43
Opisthonema oglinum	10.80	936	0.43
Penaeus subtilis	0.00		
Trichurus lepturus	0.00		
Selene apikii	0.00		
Scomberomorus rogalis	0.00		
Macrondon ancyliodon	0.00		
Chloroscombrus chrysurus	0.00		
Total	2505.60	100.00	

PROJECT STATION: 30
 DATE: 28/ 1/88 GEAR TYPE: PT No:2 POSITION: Lat N 622
 start stop duration Long W 5601
 TIME : 00:00 00:30 30 (min) Purpose code: 1
 LOG : 9797.60 9799.10 1.50 Area code : 1
 FDEPTH: 15 15 GearCond.code: 1
 BDEPTH: 26 31 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 26 kn*10

Sorted: 52 Kg Total catch: 853.10 CATCH/HOUR: 1706.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Selene setapinnis	1051.20	3620	61.61
Engraulis eurystole	302.40	108864	17.72
Sphyrna quachancho	136.80	336	8.02
Anchoviella sp	78.40	32928	4.60
Anchoa filifera	56.00	22408	3.28
Opisthonema oglinum	33.60	2912	1.97
Sardinella aurita	22.40	2016	1.31
Anchoa sp	11.20	1568	0.66
Pellona harroweri	7.20	216	0.42
Selar crumenophthalmus	2.40	24	0.14
Selar crumenophthalmus	2.20	448	0.13
Chloroscombrus chrysurus	1.20	48	0.07
Loligo pealei	1.20	24	0.07
Chloroscombrus chrysurus	0.00		
Trichurus lepturus	0.00		
Total	1706.20	100.00	

PROJECT STATION: 31
 DATE: 28/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 703
 start stop duration Long W 5551
 TIME : 06:40 07:10 30 (min) Purpose code: 3
 LOG : 9853.50 9855.40 1.90 Area code : 1
 FDEPTH: 73 70 GearCond.code: 1
 BDEPTH: 73 70 Validity code:
 Towing dir: 90° Wire out: 400 m Speed: 38 kn*10

Sorted: 30 Kg Total catch: 142.10 CATCH/HOUR: 284.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Rhomboplites aurorubens	196.00		68.97
Lutjanus purpureus	22.00	30	7.74
Carcharhinus acronotus	20.00	2	7.04
Pristigaster macrophthalmus	17.60		6.19
Priacanthus arenatus	6.40	24	2.25
Selar crumenophthalmus	5.60	48	1.97
Ariomma rogalis	3.60	32	1.27
Scomberomorus cavalla	2.80	2	0.99
Loligo pealei	2.40	120	0.84
Chloroscombrus chrysurus	2.20	32	0.77
Eucinostomus havana	2.00	16	0.70
Upeneus parvus	2.00	16	0.70
Sardinella aurita	1.60	16	0.56
Trachurus lathami	0.00	8	
Total	284.20	99.99	

PROJECT STATION: 32
 DATE: 28/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 710
 start stop duration Long W 5550
 TIME : 08:54 09:24 30 (min) Purpose code: 3
 LOG : 9870.30 9871.50 1.20 Area code : 1
 FDEPTH: 81 82 GearCond.code: 1
 BDEPTH: 81 82 Validity code:
 Towing dir: 270° Wire out: 450 m Speed: 25 kn*10

Sorted: 14 Kg Total catch: 183.30 CATCH/HOUR: 366.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus purpureus	115.60	214	31.53
Rhomboplites aurorubens	109.20	780	29.79
Sardinella aurita	80.00	150	21.82
Trachurus lathami	20.00	144	5.46
Ariomma bairdi	7.40	70	2.02
Pristigaster macrophthalmus	7.40	160	2.02
Sphyrna quachancho	7.00	10	1.91
Priacanthus arenatus	7.00	50	1.91
Decapterus tabl	6.00	170	1.64
Dalietta setula	4.00	2	1.09
Hemulon striatum	3.00	20	0.82
Total	366.60	100.01	

PROJECT STATION: 50
 DATE: 30/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 657 Long W 5718
 TIME : 13:32 start stop duration
 LOG : 231.60 233.40 1.80 Purpose code: 3 Area code : 2
 FDRPPI: 25 25 GearCond.code: Validity code:
 DDRPPI: 25 25
 Towing dir: 90° Wire out: 200 m Speed: 36 kn*10
 Sorted: 24 Kg Total catch: 24.40 CATCH/HOUR: 48.00

PROJECT STATION: 51
 DATE: 31/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 719 Long W 5640
 TIME : 06:00 start stop duration
 LOG : 366.50 368.30 1.80 Purpose code: 3 Area code : 2
 FDRPPI: 59 59 GearCond.code: Validity code:
 DDRPPI: 59 59
 Towing dir: 270° Wire out: 300 m Speed: 31 kn*10
 Sorted: 35 Kg Total catch: 35.00 CATCH/HOUR: 70.00

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Chloroscombrus chrysurus	18.80	364	30.52
Chaetodipterus faber	14.60	4	29.92
Selene spixii	11.20	20	22.95
Loligo pealei	2.50	562	5.12
Sphyræna quanchancho	1.40	2	2.87
Scorombrus brasiliensis	0.20	2	0.41
Opisthonema oglinum	0.10	4	0.20
Selar crumenophthalmus	0.00	2	
Lutjanus synagris	0.00	2	
Total	48.80		99.99

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Lutjanus purpurus	18.20	50	26.00
Scorombrus cavalla	14.00	2	20.00
Rhizoprionodon lalandii	10.60	4	15.14
Loligo pealei	7.80	2	11.14
Priacanthus arenatus	6.80	50	9.71
Decapterus punctatus	4.70	8	6.71
Rhomboplites aurorubens	4.40	84	6.29
Calanus calanus	1.40	2	2.00
Sardinella aurita	0.70	60	1.00
Balistes vetula	0.60	2	0.86
Pseudupeneus maculatus	0.40	2	0.57
Ariomma regalis	0.20	2	0.29
Selar crumenophthalmus	0.20	6	0.29
Total	70.00		100.00

PROJECT STATION: 51
 DATE: 30/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 638 Long W 5706
 TIME : 17:21 start stop duration
 LOG : 268.40 271.40 3.00 Purpose code: 3 Area code : 2
 FDRPPI: 26 27 GearCond.code: Validity code:
 DDRPPI: 26 27
 Towing dir: 100° Wire out: 150 m Speed: 40 kn*10
 Sorted: 63 Kg Total catch: 136.00 CATCH/HOUR: 181.33

PROJECT STATION: 54
 DATE: 31/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 725 Long W 5654
 TIME : 09:40 start stop duration
 LOG : 396.50 398.00 1.50 Purpose code: 3 Area code : 2
 FDRPPI: 66 62 GearCond.code: Validity code:
 DDRPPI: 66 62
 Towing dir: 150° Wire out: 350 m Speed: 30 kn*10
 Sorted: 20 Kg Total catch: 46.50 CATCH/HOUR: 93.00

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Umbrina coroides	46.40	613	25.59
Pellona harroweri	19.20	704	10.59
Macrion ancylodon	19.20	64	10.59
Micropogonias furnieri	14.93	29	8.23
Trichurus lepturus	13.87	29	7.65
Dasyatis americana	10.13	1	5.59
Cynoscion jamaicensis	6.67	56	3.68
Popilius paru	6.13	187	3.38
Cynoscion microlepidotus	5.60	64	3.09
Scorombrus cavalla	4.93	21	2.72
Chirocentron bleekeri	4.27	832	2.35
Hemirhamphus amblyrhynchus	4.27	43	2.35
Pomoxis subtilis	3.60	195	1.99
Harengula jaguana	3.20	171	1.76
Sphyræna quanchancho	2.93	45	1.62
Chaetodipterus faber	2.67	21	1.47
Chloroscombrus chrysurus	2.13	21	1.17
Prionotus punctatus	1.73	8	0.95
Acanthostracion quadricornis	1.20	3	0.66
Selene spixii	1.07	43	0.59
Oligoplites saurus	1.07	11	0.59
Pomadourus corviniformis	1.07	21	0.59
Diaplorus rhombus	1.07	5	0.59
Scoropoma brasiliensis	0.93	21	0.51
Paralichthys brasiliensis	0.53	5	0.29
Scorombrus brasiliensis	0.51	3	0.28
Larimus brevicapax	0.40	3	0.22
Lutjanus synagris	0.27	3	0.15
Haemulon plumieri	0.27	3	0.15
Micropogonias furnieri	0.27	3	0.15
Ingersollia	0.27	3	0.15
Rhizoprionodon porosus	0.27	3	0.15
Conodon nobilis	0.16	3	0.09
Orthopristis ruber	0.13	3	0.07
Lycengraulis grossidens	0.00	11	
OGCOPHALIDAE	0.00	5	
Total	181.35		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Rhomboplites aurorubens	82.00	1930	88.17
Lutjanus purpurus	3.10	14	3.33
Loligo pealei	2.30	80	2.47
Seriola fasciata	1.40	2	1.51
Haemulon aurolineatum	1.10	2	1.10
Priacanthus arenatus	1.10	2	1.18
Pristigaster macrophthalmus	1.00	16	1.08
Arctidion guineensis	0.50	2	0.54
Ariomma regalis	0.30	4	0.32
Dactylopterus volitans	0.16	2	0.17
Holocentrus ruber	0.00	2	
Decapterus punctatus	0.00	6	
Sparisoma chrysoptera	0.00	2	
Total	92.96		99.95

PROJECT STATION: 55
 DATE: 31/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 734 Long W 5700
 TIME : 11:30 start stop duration
 LOG : 410.30 412.20 50 (min) Purpose code: 1 Area code : 2
 FDRPPI: 82 82 GearCond.code: Validity code:
 DDRPPI: 82 82
 Towing dir: 350° Wire out: m Speed: kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
NO CATCH	0.00		
Total	0.00		

PROJECT STATION: 52
 DATE: 30/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 638 Long W 5655
 TIME : 20:44 start stop duration
 LOG : 295.90 297.10 1.20 Purpose code: 3 Area code : 2
 FDRPPI: 27 27 GearCond.code: Validity code:
 DDRPPI: 27 27
 Towing dir: 270° Wire out: 200 m Speed: 27 kn*10
 Sorted: 30 Kg Total catch: 169.05 CATCH/HOUR: 330.10

PROJECT STATION: 56
 DATE: 31/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 733 Long W 5711
 TIME : 13:34 start stop duration
 LOG : 422.00 423.50 1.50 Purpose code: 3 Area code : 2
 FDRPPI: 63 61 GearCond.code: Validity code:
 DDRPPI: 63 61
 Towing dir: 263° Wire out: 350 m Speed: 29 kn*10
 Sorted: 31 Kg Total catch: 302.20 CATCH/HOUR: 604.40

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Chloroscombrus chrysurus	48.00	780	14.20
Sardinella aurita	46.00	4984	13.61
Cynoscion microlepidotus	36.00	240	10.65
Chirocentron bleekeri	23.00	12822	6.80
Sphyræna quanchancho	17.50	40	5.18
Lutjanus synagris	16.80	126	4.97
Lutjanus purpurus	14.00	6	4.14
Haemulon plumieri	13.50	30	3.99
Haemulon steindachneri	13.00	126	3.85
Chaetodipterus faber	10.50	20	3.11
Calanus bajonado	10.00	20	2.96
Acanthostracion quadricornis	9.00	86	2.66
Rhomboplites aurorubens	8.40	70	2.48
Saurida sp	7.80	40	2.07
Haemulon aurolineatum	7.00	16	2.07
Selene spixii	7.00	16	2.07
Orthopristis ruber	6.00	36	1.77
Priacanthus arenatus	6.00	30	1.77
Echeneis naucrates	5.60	4	1.66
Upeneus parvus	4.00	100	1.18
Macrion ancylodon	4.00	40	1.18
Diaplorus olivaceus	4.00	160	1.18
Loligo pealei	4.00	130	1.18
Murletus biguttatus	3.50	6	1.04
Opisthonema oglinum	3.00	6	0.89
Ingersollia cruxstolus	2.80	1500	0.83
Rhizoprionodon porosus	2.00	6	0.59
Pomoxis subtilis	1.80	48	0.53
Cynoscion sp	1.50	10	0.44
Lutjanus griseus	1.40	2	0.41
Anisotremis virginicus	1.00	2	0.30
Achocha hepsetus	0.00	120	
Achocha filifera	0.00	3740	
Forichthys sp	0.00	20	
Harengula jaguana	0.00	20	
Total	338.10		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Decapterus punctatus	237.60	13842	39.31
Sardinella aurita	144.00	6172	23.83
Selar crumenophthalmus	77.40	1386	12.81
Sphyræna pinnatifida	32.40	162	5.36
Rhomboplites aurorubens	32.40	936	5.36
Mulloidichthys martinicus	23.40	450	3.87
Lutjanus analis	19.20	2	3.10
Lutjanus purpurus	16.00	2	2.65
Haemulon striatum	10.80	234	1.79
Loligo pealei	5.40	126	0.89
Carcharias acromotus	2.60	2	0.43
Ariomma regalis	1.80	54	0.30
Calanus calanus	1.40	2	0.23
Total	604.40		100.01

PROJECT STATION: 57
 DATE: 31/ 1/88 GEAR TYPE: BT No:1 POSITION: Lat N 745 Long W 5716
 TIME : 17:19 start stop duration
 LOG : 454.00 455.20 1.20 Purpose code: 3 Area code : 2
 FDRPPI: 83 82 GearCond.code: Validity code:
 DDRPPI: 83 82
 Towing dir: 335° Wire out: 400 m Speed: 24 kn*10
 Sorted: 61 Kg Total catch: 152.70 CATCH/HOUR: 305.40

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Lutjanus purpurus	81.00	250	26.52
Trachurus lathami	53.40	504	17.49
Selar crumenophthalmus	43.40	976	14.21
Rhomboplites aurorubens	41.00	7220	13.43
Decapterus punctatus	22.40	560	7.33
Balistes capriscaus	19.00	10	6.22
Cubicops sp	14.00	124	4.58
Sardinella aurita	11.40	310	3.73
Sphyræna quanchancho	6.20	30	2.03
Ariomma regalis	3.40	54	1.11
Loligo pealei	3.00	166	0.98
Priacanthus macrophthalmus	2.20	20	0.72
Upeneus parvus	2.00	34	0.65
Rhynchus niloterratus	1.60	2	0.52
Priacanthus arenatus	1.40	4	0.46
Total	305.40		99.98

start stop duration GEAR TYPE: PT No:1 POSITION:Lat N 521
 TIME : 14:15 14:45 30 (min) Purpose code: 3
 LOG : 100.90 111.00 2.10 Area code : 1
 FDRPPT: 26 26 GearCond.code: 1
 BDRPPT: 26 26 Validity code:
 Towing dir: 90° Wire out: 170 m Speed: 44 kn*10
 Sorted: 32 Kg Total catch: 32.60 CATCH/HOUR: 65.20

start stop duration GEAR TYPE: PT No:1 POSITION:Lat N 521
 TIME : 06:05 06:35 30 (min) Purpose code: 3
 LOG : 178.20 179.90 1.70 Area code : 2
 FDRPPT: 18 18 GearCond.code: 1
 BDRPPT: 18 18 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 31 kn*10
 Sorted: 9 Kg Total catch: 152.30 CATCH/HOUR: 304.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentron bleekeriannus	35.40	27088	54.29	
Chloroscombrus chrysurus	7.40	78	11.35	132
Scomberomorus brasiliensis	4.60	4	7.06	
Loligo pealii	3.40	344	5.21	133
Anchoa filifera	3.10	133	4.75	
Chaetodontopus faber	2.60	10	3.99	
Opisthonema oglinum	2.10	480	3.22	
Sardinella aurita	2.10	270	3.22	
Engraulis eurystole	2.10	1418	3.22	
Hemicaranx amblyrhynchus	2.00	12	3.07	
Opisthonema oglinum	0.20	2	0.31	
Pomaxus subtilis	0.20	2	0.31	
Lutjanus synagris	0.00	2		
Total	65.20		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	35.20	7480	11.56	144
Macrodon ancylodon	32.00	640	10.51	
Rhinoptera bonasus	30.40	4	9.98	
Opisthonema oglinum	25.60	2496	0.40	145
Trichurus lepturus	25.60	2	0.40	
Dasyatis guttata	20.20	2	6.63	
Scomberomorus brasiliensis	19.00	30	6.24	141
Xiphopomus kroyeri	17.60	5210	5.78	142
Peprius paru	16.00	800	5.25	
Peprius paru	12.80	192	4.20	
Isopisthus parvipinnis	12.40	1404	4.07	
Bagre marinus	9.60	320	1.60	
Penaeus subtilis	7.20	328	2.16	143
Cynoscion virescens	7.00	2	2.30	
Oxymonacanthus mucronatus	6.40	800	2.10	
Anchoa spinifer	5.00	800	1.90	
Pellona harroweri	4.80	352	1.58	
Arius quadricutis	4.80	12	1.58	140
Stollifer rastrifer	3.80	544	1.25	
Lolliguncula brevis	3.20	288	1.05	
Harengula jaguana	3.20	160	1.05	
Pomaxus subtilis	0.80	24	0.26	
Rhinodactylus porcellus	0.80	2	0.26	
Paralichthys brasiliensis	0.00	64		
Xiphopomus kroyeri	0.00	224		
Porichthys sp	0.00	64		
Lycengraulis grossidens	0.00	32		
Anchoa lyolepis	0.00	96		
Total	304.20		99.86	

PROJECT STATION: 43
 DATE: 29/ 1/88 GEAR TYPE: PT No:1 POSITION:Lat N 610
 TIME : 16:13 16:43 30 (min) Purpose code: 3
 LOG : 124.90 126.20 1.30 Area code : 1
 FDRPPT: 19 19 GearCond.code: 1
 BDRPPT: 19 19 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 25 kn*10
 Sorted: 15 Kg Total catch: 175.00 CATCH/HOUR: 350.00

PROJECT STATION: 47
 DATE: 30/ 1/88 GEAR TYPE: PT No:1 POSITION:Lat N 641
 TIME : 08:15 08:45 30 (min) Purpose code: 3
 LOG : 195.80 197.40 1.60 Area code : 2
 FDRPPT: 25 25 GearCond.code: 1
 BDRPPT: 25 25 Validity code:
 Towing dir: 310° Wire out: 150 m Speed: 31 kn*10
 Sorted: 21 Kg Total catch: 836.40 CATCH/HOUR: 1672.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pellona harroweri	139.20	31552	39.77	
Opisthonema oglinum	103.20	8578	29.49	134
Trichurus lepturus	45.60	3136	13.03	
Rhizoprionodon poronius	12.00	16	3.43	
Peprius paru	12.00	456	3.43	
Chaetodontopus faber	9.60	8	2.74	
Anchoa filifera	7.20	1416	2.06	
Rhinoptera bonasus	6.20	4	1.77	
Cynoscion virescens	5.60	2	1.66	
Anchoa filifera	2.40	768	0.69	
Macrodon ancylodon	2.40	144	0.69	
Harengula jaguana	2.40	144	0.69	
Bagre marinus	1.60	2	0.46	
Oligoplites saliens	0.40	2	0.11	
Oxymonacanthus mucronatus	0.00	24		
Lolliguncula brevis	0.00	72		
Anchoa spinifer	0.00	24		
Pomaxus subtilis	0.00	2		
Stollifer sp	0.00	24		
Oxycophalus sp	0.00	2		
Syngnathus sp	0.00	2		
Total	350.00		100.02	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	413.20	105524	24.70	
Chloroscombrus chrysurus	334.40	65872	19.99	
Trichurus lepturus	221.80	8598	13.26	
Pellona harroweri	166.40	7766	9.95	
Diapterus rhombus	112.60	520	6.73	149
Hemicaranx amblyrhynchus	43.40	260	2.59	
Cynoscion sp	43.00	694	2.57	
Opisthonema oglinum	39.00	3684	2.33	
Sardinella aurita	34.60	7072	2.07	
Oligoplites saurus	33.00	174	1.97	
Scomberomorus cavalla	32.20	300	1.92	147
Sphyrna quachancho	31.40	114	1.88	148
Engraulis eurystole	27.60	3320	3.85	
Peprius paru	22.40	712	1.34	
Chaetodontopus faber	22.20	146	1.13	
Chirocentron bleekeriannus	13.80	1942	0.82	
Cynoscion acoupa	13.00	86	0.78	
Lutjanus synagris	12.00	28	0.72	146
Dasyatis guttata	8.40	2	0.50	
Conodon nobilis	8.00	8	0.48	
Micropogonias furnieri	5.40	12	0.32	
Pseudocyttus corvinaeformis	5.20	18	0.31	
Caranx hippos	5.20	18	0.31	
Polydactylus virginicus	5.20	18	0.31	
Rhizoprionodon poronius	4.80	8	0.29	
Cynoscion virescens	4.60	6	0.27	
Arius quadricutis	3.40	18	0.20	
Elops saurus	2.80	2	0.17	
Pomatomus saltatrix	2.40	4	0.14	
Penaeus subtilis	0.80	18	0.05	
Scomberomorus brasiliensis	0.60	2	0.04	
Lycengraulis grossidens	0.00	138		
Selene sp	0.00	278		
Anchoa lyolepis	0.00	416		
Harengula jaguana	0.00	156		
Total	1672.80		99.99	

PROJECT STATION: 44
 DATE: 29/ 1/88 GEAR TYPE: PT No:2 POSITION:Lat N 617
 TIME : 12:46 13:16 30 (min) Purpose code: 1
 LOG : 122.50 123.80 1.60 Area code : 1
 FDRPPT: 8 8 GearCond.code: 1
 BDRPPT: 22 22 Validity code:
 Towing dir: 270° Wire out: 60 m Speed: 32 kn*10
 Sorted: 5 Kg Total catch: 115.00 CATCH/HOUR: 230.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	58.80	17346	25.57	136
Trichurus lepturus	52.60	442	22.87	
Pellona harroweri	45.60	4914	19.83	
Harengula jaguana	18.00	816	7.83	
Scomberomorus brasiliensis	12.00	18	5.22	135
Chaetodontopus faber	11.60	4	5.04	
Rhizoprionodon poronius	10.60	18	4.61	
Sphyrna media	4.60	2	2.00	
Scomberomorus cavalla	4.20	2	1.83	
Cynoscion virescens	4.20	4	1.83	
Isopisthus parvipinnis	3.60	120	1.57	
Peprius paru	2.40	120	1.04	
Cynoscion sp	1.20	40	0.52	
Echeneis nasutus	0.60	2	0.26	
TETRAODONTIDAE	0.00	24		
Penaeus subtilis	0.00	24		
Chloroscombrus chrysurus	0.00	96		
Peprius paru	0.00	24		
Lolliguncula brevis	0.00	216		
Selene sp	0.00	24		
Anchoa spinifer	0.00	48		
Opisthonema oglinum	0.00	48		
Total	230.00		100.02	

PROJECT STATION: 48
 DATE: 30/ 1/88 GEAR TYPE: PT No:1 POSITION:Lat N 644
 TIME : 10:20 10:50 30 (min) Purpose code: 3
 LOG : 211.50 213.10 1.60 Area code : 2
 FDRPPT: 19 18 GearCond.code: 1
 BDRPPT: 19 18 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 34 kn*10
 Sorted: 22 Kg Total catch: 22.10 CATCH/HOUR: 44.20

PROJECT STATION: 45
 DATE: 29/ 1/88 GEAR TYPE: PT No:2 POSITION:Lat N 634
 TIME : 20:34 21:04 30 (min) Purpose code: 1
 LOG : 155.80 157.60 1.80 Area code : 2
 FDRPPT: 18 18 GearCond.code: 1
 BDRPPT: 25 25 Validity code:
 Towing dir: 80° Wire out: 60 m Speed: 36 kn*10
 Sorted: 29 Kg Total catch: 194.00 CATCH/HOUR: 388.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus brasiliensis	14.20	28	32.13	151
Carcharias acronotus	12.00	2	27.15	
Hemicaranx amblyrhynchus	12.00	62	27.15	150
Sphyrna tiburo	2.60	2	5.88	
Lutjanus synagris	2.40	6	5.43	
Chloroscombrus chrysurus	1.00	30	2.26	
Anchoa hepsetus	0.00			
Total	44.20		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	146.00	151840	37.63	
Engraulis eurystole	55.00	27500	14.18	
Scomberomorus cavalla	52.00	46	13.61	138
Anchoa lyolepis	27.00	11340	6.96	
Sphyrna quachancho	21.20	14	5.46	
Chirocentron bleekeriannus	18.00	720	4.64	
Euthynnus alletteratus	11.60	14	2.99	137
Loligo pealii	10.00	420	2.58	139
Hemicaranx amblyrhynchus	9.00	50	2.32	
Chloroscombrus chrysurus	6.40	220	1.65	
Rhizoprionodon poronius	6.20	6	1.60	
Cynoscion acoupa	4.40	130	1.13	
Opisthonema oglinum	4.40	70	1.13	
Scomberomorus brasiliensis	4.40	6	1.13	
Harengula jaguana	3.00	90	0.77	
Selar erucanophthalmus	3.00	30	0.77	
Echeneis nasutus	2.60	4	0.67	
Pellona harroweri	1.00	20	0.26	
Trichurus lepturus	1.00	30	0.26	
Peprius paru	1.00	20	0.26	
Opisthonema oglinum	0.00	180		
Total	388.00		100.00	

PROJECT STATION: 49
 DATE: 30/ 1/88 GEAR TYPE: PT No:1 POSITION:Lat N 651
 TIME : 11:55 12:25 30 (min) Purpose code: 3
 LOG : 222.50 224.20 1.70 Area code : 2
 FDRPPT: 24 24 GearCond.code: 1
 BDRPPT: 24 24 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 39 kn*10
 Sorted: 12 Kg Total catch: 12.10 CATCH/HOUR: 24.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	8.20	28	33.86	152
Chirocentron bleekeriannus	3.00	1530	12.40	153
Chloroscombrus chrysurus	2.40	6	9.92	
Scomberomorus brasiliensis	2.20	34	9.09	
Acanthostracion quadricornis	2.00	10	8.26	
Mustelus canis	1.80	2	7.44	
Loligo pealii	1.60	130	6.61	156
Opisthonema oglinum	1.60	132	6.61	154
Anchoa sp	0.60	260	2.48	
Hemicaranx amblyrhynchus	0.60	2	2.48	
Sardinella aurita	0.20	38	0.83	155
Anchoa hepsetus	0.00	8		
Oxycophalus sp	0.00	2		
Total	24.20		100.00	

PROJECT STATION: 64
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 736 Long W 5748
 TIME : 22:20 22:50 30 (min) Purpose code: 3
 LOG : 683.30 685.00 1.70 Area code : 2
 FDEPTH: 43 34 GearCond.code:
 BDEPTH: 43 34 Validity code:
 Towing dir: 220' Wire out: 250 m Speed: 34 kn*10

PROJECT STATION: 66
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 736 Long W 5812
 TIME : 13:13 13:43 30 (min) Purpose code: 3
 LOG : 776.30 778.00 1.70 Area code : 2
 FDEPTH: 25 24 GearCond.code:
 BDEPTH: 25 24 Validity code:
 Towing dir: 220' Wire out: 150 m Speed: 35 kn*10

Sorted: 28 Kg Total catch: 42.80 CATCH/HOUR: 85.60

Sorted: 86 Kg Total catch: 86.00 CATCH/HOUR: 172.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	28.20 456	32.94	215
Selene spinix	11.00 266	12.85	214
Upeneus parvus	8.20 138	9.58	216
Rucinostomus bavaria	5.40 14	6.31	
Sphyræna quachancho	5.20 14	6.07	
Hemicaranx amblyrhynchus	5.20 60	6.07	
Synodus sp	4.40 60	5.37	
Solar crumenophthalmus	3.20 26	3.74	
Penaeus subtilis	2.40 54	2.80	217
Achenis naucates	2.40 6	2.80	
Saurida sp	2.40 6	2.80	
Cynoscion similis	1.80 6	2.10	
Opisthonema oglinum	1.20 32	1.40	
Pomadasys brasiliensis	0.80 10	0.93	218
Parichthys sp	0.80 10	0.93	
Sardinella aurita	0.60 32	0.70	
Loligo pealoi	0.60 60	0.70	
Callinectes sp	0.40 60	0.47	
Priacanthus aeneatus	0.40 6	0.47	
Diplactrum sp	0.40 4	0.47	
Lutjanus purpureus	0.40 4	0.47	
Anchoa hepsetus	0.06 12	0.07	
JELLYFISH	0.00 42		
JUVENILE: PISCES	0.00 42		
Total	85.60	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macropogonias furnieri	21.60 60	16.63	233
Macraron ancylodon	20.80 150	12.56	234
Anchoa hepsetus	20.80 3392	12.09	
Sphyrna tiburo	18.40 18	10.70	
Trichiurus lepturus	12.80 1040	7.44	
Trichurus lepturus	9.80 30	5.70	
Anchoa spinifer	6.20 672	4.65	
Gonyatremus luteus	6.60 56	3.84	
Dasyatis americana	6.60 2	3.84	
Scomberomorus brasiliensis	4.80 8	3.60	235
Rhizoprionodon poronius	4.80 20	2.79	
Pelona harroweri	4.80 336	2.79	
Macraron ancylodon	4.80 272	2.79	
Chaetodipterus fahaka	4.60 20	2.67	
Bagre bagre	2.00 6	1.16	
Lolliguncula brevis	1.60 336	0.93	
Pomadasys corvinaeformis	1.60 18	0.93	
Lutjanus synagris	1.60 2	0.93	
Macropogonias undulatus	1.60 14	0.93	
Hemicaranx amblyrhynchus	1.60 58	0.70	236
Penaeus subtilis	1.20 30	0.70	
Macraron ancylodon	0.60 4	0.35	
Peprius paru	0.20 4	0.12	
Stellifer sp	0.20 4	0.12	
Larimus breviceps	0.20 4	0.12	
Sphourides testudineus	0.20 2	0.12	
Bagre bagre	0.00 16		
Xiphopneustes kroyeri	0.00 16		
Engraulis euryostole	0.00 2		
Chilomycterus sp	0.00 2		
Acanthostracion quadricornis	0.00 2		
Symphurus sp	0.00 2		
Total	172.00	100.00	

PROJECT STATION: 65
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 757 Long W 5744
 TIME : 06:11 06:41 30 (min) Purpose code: 3
 LOG : 739.40 740.90 1.50 Area code : 2
 FDEPTH: 69 66 GearCond.code:
 BDEPTH: 69 66 Validity code:
 Towing dir: 250' Wire out: 350 m Speed: 31 kn*10

PROJECT STATION: 69
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 729 Long W 5819
 TIME : 14:33 15:03 30 (min) Purpose code: 3
 LOG : 784.40 786.20 1.80 Area code : 2
 FDEPTH: 16 14 GearCond.code:
 BDEPTH: 16 14 Validity code:
 Towing dir: 220' Wire out: 75 m Speed: 34 kn*10

Sorted: 2 Kg Total catch: 2.80 CATCH/HOUR: 5.60

Sorted: 17 Kg Total catch: 17.35 CATCH/HOUR: 34.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo pealoi	2.60 200	46.43	219
Ariomma regulus	0.90 26	16.07	
Sphyræna quachancho	0.60 4	10.71	
Priacanthus aeneatus	0.60 4	10.71	
Achenis naucates	0.30 2	5.36	
Dactylopterus volitans	0.20 2	3.57	
Decapterus punctatus	0.20 4	3.57	
Chloroscombrus chrysurus	0.20 2	3.57	
Total	5.60	99.99	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Dasyatis gijkesi	11.00 2	31.70	
Anchoa spinifer	5.60 118	16.14	237
Macraron ancylodon	4.60 118	13.26	238
Macraron ancylodon	3.90 152	11.24	
Trichiurus lepturus	2.60 186	7.49	
Xiphopneustes kroyeri	2.60 260	7.49	239
Peprius paru	1.10 28	3.17	
Peprius paru	1.10 52	3.17	
Bagre bagre	1.00 4	2.80	
Hemicaranx amblyrhynchus	0.80 154	2.31	
Anchoa filifera	0.60 26	1.73	
Cetengraulis edentulus	0.20 112	0.58	
Nonatopalmamon schmitti	0.20 4	0.58	
Paralanchurus brasiliensis	0.00 6		
Penaeus subtilis	0.00 6		
Lycengraulis grossidens	0.00 10		
Engraulis euryostole	0.00 12		
Anchoa hepsetus	0.00 2		
Stellifer sp	0.00 2		
Polydactylus virginicus	0.00 6		
Paralanchurus clineatus	0.00 2		
Total	34.70	100.00	

PROJECT STATION: 66
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 751 Long W 5755
 TIME : 07:55 08:25 30 (min) Purpose code: 3
 LOG : 750.60 751.80 1.20 Area code : 2
 FDEPTH: 49 49 GearCond.code:
 BDEPTH: 49 49 Validity code:
 Towing dir: 280' Wire out: 300 m Speed: 23 kn*10

Sorted: 27 Kg Total catch: 158.60 CATCH/HOUR: 317.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	79.00 462	24.91	223
Lutjanus annalis	64.00 8	20.18	220
Decapterus punctatus	45.40 1072	14.31	226
Lutjanus purpureus	42.00 12	13.24	222
Sardinella aurita	33.60 970	10.59	227
Heteropoda venenosa	20.40 2	6.43	221
Lutjanus synagris	7.60 8	2.40	224
Solar crumenophthalmus	5.20 48	1.64	228
Scomberomorus cavalla	5.00 8	1.58	225
Calamus calamus	3.40 6	1.07	
Rhizoprionodon sp	3.20 2	1.01	
Cantharlinus sp	2.80 6	0.88	
Priacanthus aeneatus	2.00 10	0.63	
Dactylopterus volitans	1.40 6	0.44	
Rucinostomus bavaria	0.80 6	0.25	
Pseudupeneus maculatus	0.80 4	0.25	
Pristipomoides macrophthalmus	0.50 2	0.16	
Total	317.10	99.97	

PROJECT STATION: 70
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 742 Long W 5823
 TIME : 17:09 17:39 30 (min) Purpose code: 3
 LOG : 798.20 799.50 1.30 Area code : 2
 FDEPTH: 21 21 GearCond.code:
 BDEPTH: 21 21 Validity code:
 Towing dir: 345' Wire out: 125 m Speed: 27 kn*10

Sorted: 10 Kg Total catch: 68.10 CATCH/HOUR: 136.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion virescens	29.60 10	21.73	242
Macraron ancylodon	22.40 720	16.45	
Macraron ancylodon	20.80 718	15.27	245
Macraron ancylodon	17.60 26	12.92	241
Macropogonias furnieri	12.00 1334	9.40	246
Anchoa spinifer	5.60 60	4.11	
Shrimp, small, non comm.	4.60 708	3.38	240
Xiphopneustes kroyeri	4.00 176	2.94	
Trichiurus lepturus	3.20 384	2.35	
Stellifer sp	2.40 72	1.76	
Peprius paru	2.40 304	1.76	
Isopisthus parvipinnis	2.20 2	1.62	
Scomberomorus brasiliensis	2.00 32	1.47	
Nebris microps	1.60 80	1.17	
Bagre marinus	1.60 78	1.17	243
Penaeus subtilis	1.20 136	0.88	
Engraulis euryostole	0.50 8	0.37	244
Pellona harroweri	0.40 8	0.29	
Achirus sp	0.40 8	0.29	
Lolliguncula brevis	0.40 8	0.29	
Polydactylus sp	0.40 16	0.29	
Odontognathus macronatus	0.00 8	0.06	
JELLYFISH	0.00 200		
Sciaenidae juveniles	0.00 4		
MICRODONTIDAE	0.00 4		
Dasyatis gijkesi	0.00 6		
Total	136.18	99.97	

PROJECT STATION: 67
 DATE: 2/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 746 Long W 5803
 TIME : 11:28 11:58 30 (min) Purpose code: 3
 LOG : 765.00 766.50 1.50 Area code : 2
 FDEPTH: 18 18 GearCond.code:
 BDEPTH: 18 18 Validity code:
 Towing dir: 270' Wire out: 150 m Speed: 40 kn*10

Sorted: 31 Kg Total catch: 31.20 CATCH/HOUR: 62.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Hemicaranx amblyrhynchus	22.60 134	36.22	229
Opisthonema oglinum	18.60 550	29.81	230
Chloroscombrus chrysurus	9.40 158	15.06	231
Scomberomorus cavalla	7.60 8	12.18	232
Caranx crynos	2.60 6	4.17	
Lutjanus purpureus	1.40 4	2.24	
Lolliguncula brevis	0.20 160	0.32	
Fish larvae	0.00 4		
Total	62.40	100.00	

PROJECT STATION: 58
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 728 Long W 5718
 start stop duration Purpose code: 3
 TIME : 06:09 06:39 30 (min) Area code : 2
 LX: 557.00 558.40 1.40 GearCond.code: 1
 PDRPTH: 51 49 Validity code:
 DRPPTH: 51 49
 Towing dir: 230° Wire out: 250 m Speed: 29 kn*10

Sorted: 55 Kg Total catch: 1381.60 CATCH/HOUR: 2763.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Rhomboplites aurorubens</i>	1649.60	8822	59.70
<i>Decaplorus punctatus</i>	643.80	47542	23.30
<i>Trachurus lathami</i>	178.60	1222	6.46
<i>Balistes capricornis</i>	109.00	106	3.94
<i>Solar crumenophthalmus</i>	37.60	846	1.36
<i>Lutjanus purpuraceus</i>	22.80	12	0.83
<i>Lutjanus analis</i>	15.00	2	0.54
<i>Chloroscombrus chrysurus</i>	14.00	188	0.51
<i>Diplacturus sp</i>	14.00	376	0.51
<i>Loligo pealei</i>	14.00	376	0.51
<i>Sphyrna quachancho</i>	13.00	8	0.50
<i>Scomberomorus cavalla</i>	13.00	12	0.47
<i>Sardinella aurita</i>	11.80	470	0.43
<i>Prionace glauca</i>	7.00	46	0.25
<i>Mullus auratus</i>	7.00	94	0.25
<i>Selene vomer</i>	4.60	46	0.17
<i>Balistes votula</i>	2.80	8	0.10
<i>Carcharias sp</i>	1.10	2	0.04
<i>Pseudocaranx dentex</i>	1.00	2	0.04
<i>Chaetodipterus fahaka</i>	1.00	2	0.04
<i>Lutjanus synagris</i>	0.80	2	0.03
<i>Scyliarctus dolosus</i>	0.40	2	0.01
<i>Epinephelus nigritus</i>	0.00	2	
Total	2762.70	99.99	

PROJECT STATION: 61
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 652 Long W 5738
 start stop duration Purpose code: 3
 TIME : 12:52 13:22 30 (min) Area code : 2
 LX: 604.60 606.10 1.50 GearCond.code: 1
 PDRPTH: 21 20 Validity code:
 DRPPTH: 21 20
 Towing dir: 212° Wire out: 100 m Speed: 31 kn*10

Sorted: 10 Kg Total catch: 60.45 CATCH/HOUR: 120.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Anchoa hepsetus</i>	33.60	4704	27.79
<i>Harangula jaguana</i>	19.80	678	16.38
<i>Trichiurus lepturus</i>	13.80	1374	11.41
<i>Micropogonias furnieri</i>	10.60	20	8.77
<i>Bagre bagre</i>	3.90	10	3.23
<i>Chaetodipterus fahaka</i>	3.60	2	2.98
<i>Sphyrna lowini</i>	3.60	2	2.98
<i>Selene setapinnis</i>	3.60	6	2.98
<i>Odontaspis mucronatus</i>	3.60	144	2.98
<i>Anchoa spifera</i>	3.00	636	2.48
<i>Anchoa lyolepis</i>	3.00	468	2.48
<i>Rhizoprionodon porosus</i>	2.80	4	2.32
<i>Pepilius paru</i>	2.70	54	2.23
<i>Scomberomorus brasiliensis</i>	2.60	2	2.15
<i>Macraron ancydon</i>	2.40	36	1.99
<i>Colomesus sp</i>	1.80	2	1.49
<i>Opisthonema oglinum</i>	1.60	58	1.32
<i>Hemicaranx amblyrhynchus</i>	1.60	12	1.32
<i>Penaeus subtilis</i>	1.00	46	0.83
<i>Sphyrna tiburo</i>	0.60	2	0.50
<i>Lolliguncula brevis</i>	0.60	180	0.50
TRIGLIDAE			
<i>Stellifer sp</i>	0.40	2	0.33
<i>Xiphopenaeus kroyeri</i>	0.30	12	0.25
<i>Xiphopenaeus kroyeri</i>	0.20	56	0.17
<i>Scombridae juveniles</i>	0.20	6	0.17
<i>Scalimidae juveniles</i>	0.00	36	
Total	120.90	100.03	

PROJECT STATION: 59
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 715 Long W 5729
 start stop duration Purpose code: 3
 TIME : 08:47 09:17 30 (min) Area code : 2
 LOG : 576.30 578.00 1.70 GearCond.code: 1
 PDRPTH: 29 26 Validity code:
 DRPPTH: 29 26
 Towing dir: 270° Wire out: 200 m Speed: 35 kn*10

Sorted: 38 Kg Total catch: 204.80 CATCH/HOUR: 409.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Harangula jaguana</i>	77.00	2054	18.80
<i>Sphyrna quachancho</i>	66.40	454	16.21
<i>Pepilius paru</i>	47.60	272	11.62
<i>Cynoscion jamaicensis</i>	41.20	406	10.06
<i>Rhizoprionodon porosus</i>	28.00	46	6.84
<i>Hemicaranx amblyrhynchus</i>	23.20	196	5.66
<i>Carcharias acronotus</i>	23.00	4	4.44
<i>Anchoa hepsetus</i>	18.20	2578	4.44
<i>Chirocentrodon blockerianus</i>	16.00	3014	3.91
<i>Scomberomorus cavalla</i>	12.60	56	3.08
<i>Selene setapinnis</i>	11.60	56	2.83
<i>Conodon nobilius</i>	10.80	34	2.64
<i>Chloroscombrus chrysurus</i>	10.40	994	2.54
<i>Scomberomorus brasiliensis</i>	7.40	24	1.81
<i>Anchoa lyolepis</i>	2.80	420	0.68
<i>Engraulis eurystole</i>	2.80	504	0.68
<i>Opisthonema oglinum</i>	2.00	42	0.49
<i>Oligoplites saliens</i>	1.80	4	0.44
<i>Pomatomus saltatrix</i>	1.60	4	0.39
<i>Sardinella aurita</i>	1.40	280	0.34
<i>Loligo pealei</i>	1.40	36	0.34
<i>Penaeus subtilis</i>	0.40	2	0.10
<i>Pellona harroweri</i>	0.28	14	0.07
<i>Saurida sp</i>	0.14	14	0.03
<i>Eucinostomus sp</i>	0.14	14	0.03
<i>Fish larvae</i>	0.00		
Total	408.16	99.65	

PROJECT STATION: 62
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 654 Long W 5745
 start stop duration Purpose code: 3
 TIME : 14:48 15:18 30 (min) Area code : 2
 LOG : 617.50 618.90 1.40 GearCond.code: 1
 PDRPTH: 16 16 Validity code:
 DRPPTH: 16 16
 Towing dir: 327° Wire out: 75 m Speed: 28 kn*10

Sorted: 23 Kg Total catch: 85.90 CATCH/HOUR: 171.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Macraron ancydon</i>	43.80	924	25.49
<i>Anchoa hepsetus</i>	31.80	1976	18.51
<i>Anchoa spifera</i>	15.00	5220	8.73
<i>Xiphopenaeus kroyeri</i>	13.80	1104	8.03
<i>Pepilius paru</i>	12.60	666	7.33
<i>Nematopalaemon schmitti</i>	12.00	9600	6.98
<i>Harangula jaguana</i>	9.60	324	5.59
<i>Bagre bagre</i>	7.80	426	4.54
<i>Trichiurus lepturus</i>	6.60	252	3.84
<i>Macraron ancydon</i>	6.00	3000	3.49
<i>Penaeus subtilis</i>	6.00	126	3.49
<i>Trichiurus lepturus</i>	2.00	2	1.16
<i>Paralichthys oblongus</i>	1.80	54	1.05
<i>Anchoa lyolepis</i>	1.20	420	0.70
<i>Nebria microps</i>	0.90	42	0.52
<i>Stellifer sp</i>	0.60	102	0.35
<i>Cynoscion sp</i>	0.30	30	0.17
<i>Lepidochelys olivacea</i>	0.00	2	
BATRACHOIDIDAE			
<i>Stellifer sp</i>	0.00	480	
<i>Stellifer sp</i>	0.00	300	
<i>Penaeus schmitti</i>	0.00	6	
<i>Lagocephalus innotatus</i>	0.00	6	
OGCOCEPHALIDAE			
<i>Polydactylus virginicus</i>	0.00	12	
<i>Odontaspis mucronatus</i>	0.00	6	
<i>Arius sp</i>	0.00	6	
Total	171.80	99.97	

PROJECT STATION: 60
 DATE: 1/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 703 Long W 5734
 start stop duration Purpose code: 3
 TIME : 11:00 11:30 30 (min) Area code : 2
 LOG : 592.90 594.70 1.80 GearCond.code: 1
 PDRPTH: 26 23 Validity code:
 DRPPTH: 24 23
 Towing dir: 190° Wire out: 150 m Speed: 35 kn*10

Sorted: 11 Kg Total catch: 141.85 CATCH/HOUR: 283.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Anchoa hepsetus</i>	120.40	38520	42.44
<i>Chirocentrodon blockerianus</i>	20.00	3416	9.87
<i>Pellona harroweri</i>	22.40	6160	7.90
<i>Hemicaranx amblyrhynchus</i>	19.80	22	6.98
<i>Cynoscion jamaicensis</i>	19.60	196	6.91
<i>Harangula jaguana</i>	11.20	168	3.95
<i>Anchoa lyolepis</i>	11.20	1624	3.95
<i>Lutjanus synagris</i>	6.40	20	2.26
<i>Sphyrna quachancho</i>	5.60	8	1.97
<i>Haemulon plumieri</i>	5.60	14	1.97
<i>Selene setapinnis</i>	4.40	8	1.55
<i>Scomberomorus brasiliensis</i>	3.60	8	1.27
<i>Pepilius paru</i>	3.50	28	1.23
<i>Acanthostracion quadricornis</i>	3.20	14	1.13
<i>Engraulis eurystole</i>	2.80	560	0.99
<i>Conodon nobilius</i>	2.40	8	0.85
<i>Haemulon steindachneri</i>	2.40	8	0.85
<i>Sphyrna picidilla</i>	2.40	8	0.85
<i>Orthopristis ruber</i>	2.10	14	0.74
<i>Eucinostomus hvana</i>	2.10	14	0.74
<i>Oligoplites saliens</i>	2.00	2	0.70
<i>Opisthonema oglinum</i>	1.60	8	0.56
<i>Trichiurus lepturus</i>	1.00	14	0.35
<i>Loligo pealei</i>	0.00	112	
Total	283.70	100.01	

PROJECT STATION: 63
 DATE: 1/ 2/88 GEAR TYPE: BT No:2 POSITION: Lat N 715 Long W 5744
 start stop duration Purpose code: 1
 TIME : 17:35 18:05 30 (min) Area code : 2
 LOG : 640.90 642.70 1.80 GearCond.code: 1
 PDRPTH: 10 10 Validity code:
 DRPPTH: 23 23
 Towing dir: 250° Wire out: 75 m Speed: 35 kn*10

Sorted: 2 Kg Total catch: 54.20 CATCH/HOUR: 108.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Anchoa hepsetus</i>	96.80	35400	89.30
<i>Anchoa lyolepis</i>	5.80	2170	5.35
<i>Oligoplites saliens</i>	2.40	2	2.21
<i>Harangula jaguana</i>	1.80	24	1.66
<i>Opisthonema oglinum</i>	1.60	14	1.48
<i>Trichiurus lepturus</i>	0.00	24	
<i>Pepilius paru</i>	0.00	12	
<i>Lolliguncula brevis</i>	0.00	58	
<i>Engraulis eurystole</i>	0.00	234	
Total	108.40	100.00	

PROJECT STATION: 78
 POSITION: Lat N 831
 Long W 5952

DATE: 3/ 2/88
 start stop duration
 TIME : 17:40 18:10 30 (min) Purpose code: 3
 LOG : 959.60 960.70 1.10 Area code : 2
 FDEPTH: 59 60 GearCond.code: 2
 BDEPTH: 59 60 Validity code:
 Towing dir: 135 Wire out: 350 m Speed: 27 kn*10

Sorted: 24 Kg Total catch: 548.90 CATCH/HOUR: 1097.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion acoupa	278.00	3212	25.32	285
Inarengula jaguana	237.60	11740	21.64	286
Pollona harroweri	205.20	9944	10.69	287
Chirocentron bloekerianus	86.40	13824	7.87	
Scoboromorus cavalla	73.00	72	6.65	284
Hemicarax amblyrhynchus	48.60	188	4.43	
Sphyrna media	33.20	8	3.02	
Carcharias necotus	21.60	80	1.97	
Solene spixii	20.20	4	1.84	
Sphyrna media	13.40	702	1.22	
Chloroscombrus chrysurus	13.40	162	1.22	
Upeneus parvus	10.80	270	0.98	
Pennaeus subtilis	10.60	90	0.97	
Sphyrna quachancho	10.20	2	0.93	
Sphyrna tiburo	10.20	2	0.93	
Popilius paru	8.00	90	0.73	
Rhizoprionodon lalandii	7.00	12	0.64	
Carcharias porosus	6.00	2	0.55	
Anchoa hepsetus	5.40	378	0.49	
Pomatomus saltatrix	5.40	8	0.49	
Anchoa filifera	2.60	270	0.24	
Pennaeus brasiliensis	0.60	26	0.05	
Scoboromorus brasiliensis	0.60	2	0.05	
JELLYFISH	0.00			
Citharichthys sp	0.00	54		
Selene spixii	0.00	54		
Total	1097.80		99.99	

PROJECT STATION: 82
 POSITION: Lat N 845
 Long W 5929

DATE: 4/ 2/88
 start stop duration
 TIME : 09:08 09:38 30 (min) Purpose code: 3
 LOG : 1093.70 1095.70 2.00 Area code : 2
 FDEPTH: 62 61 GearCond.code: 2
 BDEPTH: 62 61 Validity code: 9
 Towing dir: 135 Wire out: 350 m Speed: 30 kn*10

Sorted: 25 Kg Total catch: 25.80 CATCH/HOUR: 51.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	16.00	124	31.01	
Cynoscion acoupa	9.20	2	17.83	
Lutjanus purpurus	5.60	186	10.85	
Moronearia sp	4.40	18	8.53	
Calappa sp	3.32	326	6.43	
Oliva sp	2.20	62	4.26	
Isopisthus parvipinnis	1.40		2.71	
CRUSTACEANS	0.90	12	1.74	
Trichiurus lepturus	0.90	12	1.74	
Stellifer sp	0.90	12	1.74	
MURAEIDAE	0.80	2	1.55	
Porichthys sp	0.80	4	1.55	
Ancylometta quadricellata	0.80	6	1.55	
Umbrina sp	0.70	38	1.36	
Pennaeus subtilis	0.70	36	1.36	
VERMIDAE	0.60	4	1.16	
MURAEIDAE	0.60	12	1.16	
OPHIURIDAE	0.60	18	1.16	
Cynoscion sp	0.50	82	0.97	
Cyprea sp	0.30	2	0.58	
Prionotus sp	0.30	2	0.58	
Rhomboplites aurorubens	0.10	6	0.19	
OPHIDIIDAE	0.00	2		
Atrina rigida	0.00	40		
COBITIDAE	0.00	2		
OXICOCEPHALIDAE	0.00	2		
Total	51.62		100.01	

PROJECT STATION: 79
 POSITION: Lat N 836
 Long W 5900

DATE: 3/ 2/88
 start stop duration
 TIME : 21:47 22:17 30 (min) Purpose code: 3
 LOG : 991.90 995.00 1.10 Area code : 2
 FDEPTH: 64 63 GearCond.code: 2
 BDEPTH: 64 63 Validity code:
 Towing dir: 230 Wire out: 350 m Speed: 19 kn*10

Sorted: 36 Kg Total catch: 144.30 CATCH/HOUR: 288.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	215.00	1232	74.50	
Harec marinus	20.60	42	7.14	
Rhizoprionodon porosus	16.40	26	5.68	
Pennaeus subtilis	12.90	704	4.47	288
Isopisthus parvipinnis	12.80	300	4.44	
Cynoscion acoupa	8.20	94	2.84	
Ctenosciaena gracilicirillus	1.80	18	0.62	
Pennaeus notialis	0.90	60	0.31	
JELLYFISH	0.00			
Upeneus parvus	0.00			
Inarengula sp	0.00			
Acanthostracion quadricornis	0.00			
MURAEIDAE	0.00			
Popilius paru	0.00			
Chloroscombrus chrysurus	0.00			
Pollona harroweri	0.00			
Chirocentron bloekerianus	0.00			
Trichiurus lepturus	0.00			
Total	288.60		100.00	

PROJECT STATION: 83
 POSITION: Lat N 845
 Long W 5928

DATE: 4/ 2/88
 start stop duration
 TIME : 10:16 11:06 30 (min) Purpose code: 3
 LOG : 1100.40 1101.30 0.90 Area code : 2
 FDEPTH: 63 67 GearCond.code: 2
 BDEPTH: 63 67 Validity code:
 Towing dir: 330 Wire out: 300 m Speed: 14 kn*10

Sorted: 29 Kg Total catch: 187.80 CATCH/HOUR: 375.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion sp	206.40	8304	54.95	
Isopisthus parvipinnis	40.00	1632	12.78	
Umbrina coroides	34.40	960	10.22	
Chirocentron bloekerianus	28.80	3984	7.67	
Pennaeus subtilis	20.00	1322	5.32	293
Sphyrna lawini	10.40	2	2.77	
Prionotus sp	7.20	96	1.92	
VERMIDAE	5.00	182	1.33	
Pennaeus notialis	4.20	176	1.12	294
Sarda sarda	2.70	2	0.72	
Pollona harroweri	2.40	192	0.64	
Panulirus argus	1.60	2	0.43	
Gymnothorax coelestis	0.40	2	0.11	
Pennaeus brasiliensis	0.10	12	0.03	
JELLYFISH	0.00			
Inarengula jaguana	0.00	48		
Total	375.60		100.01	

PROJECT STATION: 80
 POSITION: Lat N 857
 Long W 5916

DATE: 4/ 2/88
 start stop duration
 TIME : 06:08 06:38 30 (min) Purpose code: 3
 LOG : 1074.70 1075.30 0.60 Area code : 2
 FDEPTH: 82 81 GearCond.code: 2
 BDEPTH: 82 81 Validity code:
 Towing dir: 225 Wire out: 400 m Speed: 22 kn*10

Sorted: 9 Kg Total catch: 9.40 CATCH/HOUR: 18.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Solar crumenophthalmus	6.40	58	34.04	291
Rhomboplites aurorubens	6.20	74	32.98	290
Lutjanus purpurus	5.60	18	29.79	289
Sphyrna quachancho	0.30	2	1.60	
Strumus tereus	0.10	2	0.53	
Loligo pealei	0.10	2	0.53	
Sardinella aurita	0.10	2	0.53	
Total	18.80		100.00	

PROJECT STATION: 84
 POSITION: Lat N 844
 Long W 5935

DATE: 4/ 2/88
 start stop duration
 TIME : 12:20 12:50 30 (min) Purpose code: 3
 LOG : 1111.50 1113.30 1.80 Area code : 2
 FDEPTH: 40 40 GearCond.code: 2
 BDEPTH: 40 40 Validity code:
 Towing dir: 300 Wire out: 200 m Speed: 31 kn*10

Sorted: 99 Kg Total catch: 298.25 CATCH/HOUR: 596.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	198.80	1400	33.33	295
Cynoscion vitreus	126.00	116	21.12	296
Isopisthus parvipinnis	84.00	10640	14.08	
Stellifer sp	35.00	2772	5.87	
Xiphopomus kroyeri	33.60	5408	5.63	
Nematopakaemon schmitti	33.60	12320	5.63	
Larimus breviceps	15.40	292	2.58	
Micropogonias furnieri	15.20	20	2.55	297
Mutuelus higmani	12.60	22	2.11	
Arius grandicaesus	11.60	10	1.94	
Baqa baqa	9.80	84	1.64	
Nobria microps	7.00	28	1.17	
Gymnura microps	4.00	8	0.67	
Gymnura microps	3.00	2	0.50	
Syngnathus sp	2.80	2	0.47	
Cyclosetta chittendeni	2.00	2	0.34	
Micropogonias furnieri	1.40	28	0.23	
Sphyrna tiburo	0.70	2	0.12	
JELLYFISH	0.00			
Chaetodipterus faber	0.00	56		
Inarengula jaguana	0.00	28		
Porichthys sp	0.00	196		
Total	596.50		99.98	

PROJECT STATION: 81
 POSITION: Lat N 852
 Long W 5926

DATE: 4/ 2/88
 start stop duration
 TIME : 07:44 08:14 30 (min) Purpose code: 3
 LOG : 1083.70 1086.70 3.00 Area code : 2
 FDEPTH: 70 70 GearCond.code: 2
 BDEPTH: 70 70 Validity code:
 Towing dir: 140 Wire out: 450 m Speed: 56 kn*10

Sorted: 6 Kg Total catch: 5.60 CATCH/HOUR: 11.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	2.80	64	25.00	292
Rhizoprionodon porosus	2.00	2	17.86	
Saurida sp	1.60	80	14.29	
Lutjanus purpurus	1.20	4	10.71	
Rhomboplites aurorubens	1.00	8	9.93	
Sphyrna quachancho	0.90	4	8.04	
Loligo pealei	0.70	74	6.25	
Synodus synodus	0.50	14	4.46	
Pennaeus notialis	0.30	6	2.68	
Pennaeus brasiliensis	0.10	2	0.89	
Pennaeus subtilis	0.10	2	0.89	
Eucinostomus melanopterus	0.00	2		
COBITIDAE	0.00	2		
MURAEIDAE	0.00	2		
CRUSTACEANS	0.00	2		
Trachurus lathami	0.00	8		
Diplectrus sp	0.00	2		
Selene sp	0.00	2		
Total	11.20		100.00	

DATE: 2/ 2/88 GEAR TYPE: BT No:4 PROJECT STATION: 71
 start stop duration POSITION:Lat N 754
 TIME : 20:30 21:10 40 (min) Long W 5815
 LOG : 814.70 816.80 2.10 Purpose code: 1
 FDEPTH: 0 0 Area code : 2
 BDEPTH: 29 17 GearCond.code: 3
 Towing dir: 240° Wire out: 50 m Speed: 30 kn*10
 Validity code:
 Sorted: 11 Kg Total catch: 173.10 CATCH/HOUR: 259.65

DATE: 2/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 75
 start stop duration POSITION:Lat N 802
 TIME : 12:27 12:57 30 (min) Long W 5846
 LOG : 921.50 923.40 1.90 Purpose code: 3
 FDEPTH: 16 16 Area code : 2
 BDEPTH: 16 16 GearCond.code: 3
 Towing dir: 360° Wire out: 75 m Speed: 31 kn*10
 Validity code:
 Sorted: 86 Kg Total catch: 102.05 CATCH/HOUR: 204.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa sp	97.20	41796	37.44	
Trichurus lepturus	26.55	75	10.23	
Anchoa spinifer	25.20	10920	9.71	
Hemicaranx amblyrhynchus	23.40	144	9.01	
Cynoscion virescens	9.90	36	3.81	
Scorpaenomorax brasiliensis	9.90	11	3.81	248
Pellona harroweri	7.95	2700	3.06	
Sphyræna quachancho	6.68	29	2.57	
Opisthonema oglinum	5.55	180	2.14	
Harengula jaguana	5.40	108	2.08	
Peprilus paru	5.40	18	2.08	
Stellifer sp	4.65	324	1.79	
Chloroscombrus chrysurus	4.50	702	1.73	
Scorpaenomorax cavalla	4.35	2	1.69	247
Larimus broviceps	3.60	126	1.38	
Selene spixii	3.60	18	1.39	
Rhizoprionodon porosus	3.30	8	1.27	
Pomatomus saltatrix	2.63	3	1.01	
Penaeus subtilis	1.80	18	0.69	
Cynoscion acoupa	1.80	36	0.69	
Anchoa hepsetus	1.65	594	0.64	
Sardinella aurita	1.50	9	0.58	
Chirocentrodon bleekeriannus	0.90	504	0.35	
POMADASYIDAE	0.90	36	0.35	
Oligoplites saurus	0.83	2	0.32	
Sphyrna tiburo	0.60	2	0.23	
Total	259.74		100.05	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dasyatis americana	90.00	22	44.10	262
Arius quadriscutis	26.80	96	13.13	263
Tarpon atlanticus	18.40	2	9.02	264
Micropogonias furnieri	14.40	22	7.06	265
Centropomus parallelus	8.00	6	4.31	266
Stellifer sp	6.40	464	3.14	
Peprilus paru	4.80	208	2.35	
Macrondon ancylostomus	4.60	92	2.25	267
Anchoa spinifer	4.00	384	1.96	
Catengraulis edentulus	4.00	208	1.96	
Bagre bagre	4.00	208	1.96	
Xiphopneustes kroyeri	3.20	472	1.57	268
Macrondon ancylostomus	3.20	272	1.57	
Harengula jaguana	2.40	128	1.18	
Anchoa fillifera	1.60	160	0.78	
Nematopalaemon schmitti	1.60	80	0.78	
Trichurus lepturus	1.20	32	0.59	
Parionchurus brasiliensis	1.20	32	0.59	
Penaeus subtilis	1.10	24	0.54	269
Penaeus schmitti	0.60	24	0.29	270
Bagre bagre	0.60	60	0.29	
Arius grandicaessis	0.40	2	0.20	
Nebris microps	0.40	6	0.20	
Brachyura eurystole	0.00	112		
Achirus sp	0.00	32		
Total	204.10		100.01	

DATE: 3/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 72
 start stop duration POSITION:Lat N 817
 TIME : 06:13 06:43 30 (min) Long W 5827
 LOG : 078.20 878.90 0.70 Purpose code: 3
 FDEPTH: 52 55 Area code : 2
 BDEPTH: 52 55 GearCond.code: 1
 Towing dir: 300° Wire out: 300 m Speed: 15 kn*10
 Validity code:
 Sorted: 59 Kg Total catch: 109.30 CATCH/HOUR: 218.60

DATE: 3/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 76
 start stop duration POSITION:Lat N 815
 TIME : 14:01 14:31 30 (min) Long W 5846
 LOG : 932.40 933.60 1.20 Purpose code: 3
 FDEPTH: 29 33 Area code : 2
 BDEPTH: 29 33 GearCond.code: 1
 Towing dir: 360° Wire out: 150 m Spool: 25 kn*10
 Validity code:
 Sorted: 97 Kg Total catch: 102.30 CATCH/HOUR: 204.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	62.00	832	28.36	252
Chloroscombrus chrysurus	51.40	2070	23.51	253
Hemicaranx amblyrhynchus	41.20	238	18.85	254
Duocentrus punctatus	23.80	702	10.89	251
Prionchurus arenatus	16.80	94	7.69	
Rhizoprionodon porosus	10.00	2	4.57	
Behneis naucratos	9.40	14	1.56	
Scorpaenomorax cavalla	2.60	10	1.19	250
Upeneus parvus	1.00	42	0.82	
Lutjanus synagris	1.20	6	0.55	
Loligo pealei	1.00	52	0.46	
Sphyræna quachancho	1.00	5	0.46	
Trachurus lathami	1.00	6	0.46	
Lutjanus purpuraceus	1.00	10	0.46	249
Rhomboplites aurorubens	0.10	4	0.10	
Selene spixii	0.00	4		
Total	218.60		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion virescens	59.60	20	29.13	271
Micropogonias furnieri	41.60	64	20.33	272
Macrondon ancylostomus	21.00	152	10.26	273
Arius quadriscutis	19.80	50	9.60	274
Stellifer sp	11.20	832	5.47	
Gymnura micrura	10.80	14	5.28	
Arius grandicaessis	8.80	8	4.30	276
Centropomus parallelus	7.20	8	3.52	275
Rhizoprionodon sp	6.00	2	3.32	
Bagre bagre	6.40	54	3.13	277
Macrondon ancylostomus	3.20	396	1.56	
Xiphopneustes kroyeri	2.40	300	1.17	270
Anchoa spinifer	2.00	268	0.98	
Gonyatrus luteus	1.00	4	0.49	
Rhinobatos sp	1.00	2	0.49	
Nebris microps	1.00	2	0.49	
Harengula jaguana	0.40	20	0.20	
Peprilus paru	0.30	2	0.15	
Hemicaranx amblyrhynchus	0.10	2	0.05	
JELLYFISH	0.00	2		
Penaeus schmitti	0.00	2		
Chloroscombrus chrysurus	0.00	4		
Odontognathus mucronatus	0.00	4		
Catengraulis edentulus	0.00	4		
Total	204.60		100.00	

DATE: 3/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 73
 start stop duration POSITION:Lat N 817
 TIME : 08:45 09:15 30 (min) Long W 5832
 LOG : 895.00 896.00 1.00 Purpose code: 3
 FDEPTH: 47 51 Area code : 2
 BDEPTH: 47 51 GearCond.code: 1
 Towing dir: 305° Wire out: 250 m Speed: 10 kn*10
 Validity code:
 Sorted: 30 Kg Total catch: 30.30 CATCH/HOUR: 60.60

DATE: 3/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 77
 start stop duration POSITION:Lat N 826
 TIME : 15:50 16:20 30 (min) Long W 5846
 LOG : 945.70 947.10 1.40 Purpose code: 3
 FDEPTH: 55 57 Area code : 2
 BDEPTH: 55 57 GearCond.code: 1
 Towing dir: 360° Wire out: 350 m Speed: 29 kn*10
 Validity code:
 Sorted: 53 Kg Total catch: 53.75 CATCH/HOUR: 107.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	31.20	326	51.49	
Sphyræna quachancho	5.60	60	9.24	255
Hemicaranx amblyrhynchus	5.40	24	8.91	
Behneis naucratos	4.60	22	7.59	
Scorpaenomorax cavalla	4.40	8	7.26	256
Caranx oryzias	3.76	6	6.20	
Opisthonema oglinum	2.20	42	3.63	
Prionchurus arenatus	2.00	8	3.30	
Trachurus lathami	0.60	4	0.99	
Upeneus parvus	0.40	2	0.66	
Selene spixii	0.20	2	0.33	
Rhomboplites aurorubens	0.20	2	0.33	
Total	60.56		99.91	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyræna picudilla	30.60		35.91	279
Solar crumenophthalmus	35.60		33.12	280
Carcharhinus acronotus	9.40	2	8.74	
Sphyrna lewini	5.50	2	5.12	
Hemicaranx amblyrhynchus	4.20	16	3.91	281
Loligo pealei	2.60	4	2.42	
Rhizoprionodon porosus	2.60	4	2.42	282
Scorpaenomorax cavalla	2.60	4	2.42	283
Selene spixii	1.60	20	1.49	
Chloroscombrus chrysurus	1.60	36	1.49	
Lutjanus synagris	0.60	2	0.56	
Aluterus sp	0.60	2	0.56	
Peprilus paru	0.40	2	0.37	
Total	107.50		100.02	

DATE: 3/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 74
 start stop duration POSITION:Lat N 811
 TIME : 10:37 11:07 30 (min) Long W 5839
 LOG : 908.10 910.10 2.00 Purpose code: 3
 FDEPTH: 36 33 Area code : 2
 BDEPTH: 36 33 GearCond.code: 1
 Towing dir: 295° Wire out: 200 m Speed: 38 kn*10
 Validity code:
 Sorted: 16 Kg Total catch: 129.50 CATCH/HOUR: 259.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylostomus	69.20	398	26.72	257
Arius grandicaessis	36.40	66	14.05	259
Bagre bagre	29.20	116	11.27	258
Trichurus lepturus	28.20	96	10.89	
Cynoscion virescens	19.20	36	7.41	260
Micropogonias furnieri	13.80	20	5.33	261
Dasyatis americana	10.00	8	3.86	
Gonyatrus luteus	8.50	30	3.28	
Torpedo sp	8.40	4	3.24	
Stellifer sp	8.00	210	3.09	
Nebris microps	6.60	18	2.55	
Hemicaranx amblyrhynchus	6.50	30	2.51	
Cynoscion acoupa	4.50	50	1.74	
Peprilus paru	3.00	10	1.16	
Rhizoprionodon porosus	3.00	6	1.16	
Pomatomus saltatrix	2.00	2	0.77	
Macrondon ancylostomus	1.50	30	0.50	
Trachinotus carolinus	1.00	2	0.39	
JELLYFISH	0.00			
Xiphopneustes kroyeri	0.00	60		
Penaeus subtilis	0.00	6		
Penaeus schmitti	0.00	2		
Anchoa spinifer	0.00	50		
Pellona harroweri	0.00	70		
Cynoscion sp	0.00	30		
Total	259.00		100.00	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 9003 Long W 6003
 TIME : 08:22 08:52 30 (min) Purpose code: 3
 LOG :1246.90 1248.40 1.50 Area code : 3
 FDRPTH: 50 57 GearCond.code: 1
 DRPTH: 58 57 Validity code:
 Towing dir: 290° Wire out: 300 m Speed: 30 kn*10

Sorted: 11 Kg Total catch: 139.10 CATCH/HOUR: 278.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Macrondon ancyloides	46.00	260	16.53	
Trichiurus lepturus	40.00	1040	14.38	
Cynoscion steindachneri	30.00	260	10.78	
Isopisthus parvipinnis	26.00	880	9.35	
Cynoscion acoupa	23.80	466	8.55	
Chirocentron bloekerianum	22.00	3080	7.91	
Chromolaena gracilicirrhus	22.00	300	7.91	
SCIAENIDAE	20.00	6240	7.19	
Cynoscion virescens	16.80	12	6.04	
OGCOCEPHALIDAE	5.00	120	1.80	
Anchoa spinifer	4.60	280	1.65	
Cynoscion nothus	4.40	140	1.44	
Mustelus canis	3.00	6	1.08	
Rhizoprionodon porosus	2.60	2	0.93	
PORTUNIDAE	2.00	100	0.72	
Homatulaeom schmitti	2.00	72	0.72	
Anchoa hepsetus	2.00	260	0.72	
Porichthys sp	2.00	80	0.72	
Arius grandicaissis	2.00	2	0.72	
Lutjanus synagris	1.10	2	0.40	
Prionotus sp	0.84	2	0.30	
Pellona harroweri	0.40	280	0.14	
Saurida sp	0.00	20		
Mustelus sp	0.00	20		
OPHICHTHIDAE	0.00	20		
Opisthonema oglinum	0.00	20		
Dasyatis sp	0.00	4		
Total		278.14	99.98	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 9003 Long W 6003
 TIME : 14:08 14:39 30 (min) Purpose code: 3
 LOG :1208.40 1209.50 1.10 Area code : 3
 FDRPTH: 59 59 GearCond.code: 1
 DRPTH: 59 59 Validity code:
 Towing dir: 300° Wire out: 300 m Speed: 24 kn*10

Sorted: 35 Kg Total catch: 92.70 CATCH/HOUR: 185.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	34.80	644	18.77	
Chirocentron bloekerianum	34.80	17160	18.77	317
Cynoscion virescens	15.60	20	8.41	318
Cynoscion sp	15.60	3792	8.41	
Macrondon ancyloides	13.20	90	7.12	
Chromolaena gracilicirrhus	9.90	144	5.34	
Arius grandicaissis	8.80	8	4.75	
Anchoa spinifer	8.40	936	4.53	
Isopisthus parvipinnis	7.80	100	4.21	
Mustelus higmani	6.20	14	3.34	
Pennaeus subtilis	4.20	240	2.27	
Pomatomus saltatrix	3.20	2	1.73	
Sphyrna tiburo	2.50	2	1.35	
Porichthys sp	1.80	40	0.97	
Lolliguncula brevis	1.20	72	0.65	
Pellona harroweri	1.20	264	0.65	
Selar crumenophthalmus	1.20	6	0.65	
Prionotus rubio	0.90	18	0.49	
Lutjanus synagris	0.60	6	0.32	
Engraulis aenostole	0.00	24		
Anchoa hepsetus	0.00	24		
Anchoa lyolepis	0.00	48		
Anchoa hepsetus	0.00	72		
Citharichthys sp	0.00	6		
OGCOCEPHALIDAE	0.00	18		
Opisthonema oglinum	0.00	24		
Harengula jaguana	0.00	24		
Lutjanus sp	0.00	12		
Xiphopaneas kroyeri	0.00	60		
Total		185.40	100.01	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 903 Long W 6010
 TIME : 10:02 10:32 30 (min) Purpose code: 3
 LOG :1259.20 1260.70 1.50 Area code : 3
 FDRPTH: 40 39 GearCond.code: 1
 DRPTH: 40 39 Validity code:
 Towing dir: 300° Wire out: 200 m Speed: 30 kn*10

Sorted: 9 Kg Total catch: 204.60 CATCH/HOUR: 409.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	96.00	2194	23.46	
Cynoscion virescens	96.00	130	23.46	309
Selene setapinnis	53.60	100	13.10	311
Xiphopaneas kroyeri	44.00	11440	10.75	
Cynoscion acoupa	17.20	320	4.20	
Bagre bagre	15.00	56	3.67	
Arius grandicaissis	14.60	14	3.57	
Micropogonias furnieri	14.40	32	3.52	310
Stellifer natrix	12.00	400	2.93	
Bagre marinus	9.00	2	2.20	
Mustelus canis	6.00	12	1.47	
CONGRIDAE	4.60	2	1.12	
Trachinotus cayanensis	4.60	6	1.12	
Macrondon ancyloides	4.00	20	0.98	
Isopisthus parvipinnis	4.00	200	0.98	
Gymnura micrura	2.40	6	0.85	
Caranx hippos	2.60	4	0.64	
Peprilus paru	2.00	20	0.49	
Anchoa spinifer	1.20	220	0.29	
SCIAENIDAE	1.20	520	0.29	
Pennaeus subtilis	1.00	40	0.24	
Anchoa hepsetus	1.00	360	0.24	
Rhizoprionodon lalandii	0.90	2	0.22	
Peprilus paru	0.60	2	0.15	
Pennaeus schmitti	0.30	2	0.07	
Shrimps, larva	0.00			
Nehris microps	0.00			
Total		409.20	99.99	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 914 Long W 6025
 TIME : 16:10 16:40 30 (min) Purpose code: 3
 LOG :1303.60 1305.00 1.40 Area code : 3
 FDRPTH: 28 21 GearCond.code: 1
 DRPTH: 28 21 Validity code:
 Towing dir: 200° Wire out: 150 m Speed: 28 kn*10

Sorted: 10 Kg Total catch: 316.10 CATCH/HOUR: 632.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion virescens	78.40	38	12.40	319
Anchoa hepsetus	57.60	9216	9.11	
Anchoa spinifer	57.60	5544	9.11	
Macrondon ancyloides	50.40	450	7.97	
Pellona harroweri	43.20	11520	6.83	
Stellifer sp	43.20	3520	6.03	
Anchoa hepsetus	43.20	7200	6.03	
Trichiurus lepturus	36.00	1800	5.69	
Arius grandicaissis	29.60	20	4.60	322
Isopisthus parvipinnis	21.60	1008	3.42	
Anchoa lyolepis	21.60	5544	3.42	
Contropomus parallelus	21.60	34	3.29	321
Larimus breviceps	15.00	54	2.37	
Harengula jaguana	14.40	864	2.28	
Bagre bagre	14.40	90	2.28	
Xiphopaneas kroyeri	14.40	2844	2.28	
Arius quadriscutis	12.40	30	1.96	323
Scomberomorus brasiliensis	11.60	14	1.83	320
Peprilus paru	7.20	288	1.14	
Pomatomus saltatrix	5.60	4	0.89	
Nehris microps	5.00	36	0.85	
Micropogonias furnieri	5.00	4	0.79	
Rhizoprionodon porosus	4.60	4	0.73	
Haemulon steindachneri	3.60	18	0.57	
Klops saurus	3.40	2	0.54	
Trachinotus cayanensis	3.30	4	0.52	
Caranx hippos	2.60	2	0.41	
Trachinotus carolinus	2.20	2	0.35	
Rhinoptera bonasus	1.50	2	0.24	
Pennaeus schmitti	1.20	18	0.19	
Rhinoptera sp	1.00	2	0.16	
Sphyrna tiburo	0.80	4	0.13	
Chloroscombrus chrysurus	0.00	216		
Selene sp	0.00	216		
TETRAODONTIDAE	0.00	72		
Pennaeus subtilis	0.00	6		
Total		632.80	100.09	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:2 POSITION:Lat N 905 Long W 6011
 TIME : 12:06 12:36 30 (min) Purpose code: 1
 LOG :1274.30 1275.60 1.30 Area code : 3
 FDRPTH: 20 30 GearCond.code: 1
 DRPTH: 42 41 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 27 kn*10

Sorted: 42 Kg Total catch: 527.50 CATCH/HOUR: 1055.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa hepsetus	140.00	10752	13.27	313
Sardinella aurita	56.00	41440	5.31	
Anchoa lyolepis	44.00	21056	4.25	
Selene setapinnis	36.40	140	3.45	
Scomberomorus cavalla	24.60	4	2.33	314
Engraulis aenostole	22.40	5712	2.12	
Scomberomorus brasiliensis	12.00	8	1.14	315
Caranx crynos	8.00	8	0.76	316
Pomatomus saltatrix	6.20	4	0.59	
Rhizoprionodon porosus	5.00	8	0.47	
Opisthonema oglinum	4.20	28	0.40	
Sphyrna guachancio	3.40	4	0.32	
Klops saurus	2.60	2	0.25	
Oligoplites saliens	2.00	2	0.19	
Trichiurus lepturus	1.40	56	0.13	
Scomberomorus cavalla	1.40	28	0.13	
Chnetodipterus faber	1.40	2	0.13	
Lolliguncula brevis	0.00	1120		
Opisthonema oglinum	0.00	336		
Total		1055.00	100.00	

DATE: 5/ 2/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 923 Long W 6030
 TIME : 17:35 18:05 30 (min) Purpose code: 3
 LOG :1312.50 1313.60 1.10 Area code : 3
 FDRPTH: 34 39 GearCond.code: 1
 DRPTH: 34 39 Validity code:
 Towing dir: 345° Wire out: 200 m Speed: 23 kn*10

Sorted: 37 Kg Total catch: 242.20 CATCH/HOUR: 484.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	74.40	1206	15.36	
Macrondon ancyloides	50.40	314	10.40	327
Cynoscion virescens	36.80	40	7.60	
Peprilus paru	34.00	240	7.18	
Bagre bagre	28.80	260	5.95	
Stellifer griseus	25.20	2016	5.20	
Micropogonias furnieri	23.60	32	4.87	
Arius grandicaissis	21.80	14	4.50	324
Xiphopaneas kroyeri	18.00	3886	3.72	
Anchoa hepsetus	16.80	4488	3.47	
Isopisthus parvipinnis	15.60	864	3.22	
Pomatomus saltatrix	15.20	12	3.14	
Pellona harroweri	14.40	3456	2.97	
Selene setapinnis	14.20	26	2.93	
Arius quadriscutis	10.40	2	2.15	325
Macrondon ancyloides	8.40	600	1.73	
Klops saurus	8.20	6	1.69	
Rhinoptera bonasus	8.00	6	1.65	
Arius quadriscutis	7.20	120	1.49	
Anchoa spinifer	7.20	816	1.49	
Scomberomorus cavalla	6.20	4	1.28	326
TORPEDINIDAE	6.00	2	1.24	
CONGRIDAE	5.60	2	1.10	
Bagre marinus	4.40	4	0.91	
Cararhinus acronotus	4.20	2	0.87	
Trachinotus cayanensis	4.00	6	0.83	
Scomberomorus cavalla	3.00	60	0.62	
Harengula sp	2.40	72	0.50	
Rhizoprionodon porosus	1.90	2	0.39	
Cynoscion steindachneri	1.80	6	0.37	
Pennaeus subtilis	1.80	84	0.47	
Heteropoda interstitialis	1.42	2	0.29	
Colomesus sp	1.20	2	0.25	
Contropomus parallelus	1.00	2	0.21	
Anchoa hepsetus	0.00	144		
Chloroscombrus chrysurus	0.00	24		
Total		484.32	100.00	

DATE: 4/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 85
 start stop duration POSITION: Lat N 840 Long W 5937
 TIME : 13:43 14:13 30 (min) Purpose code: 3
 LOG : 1119.00 1121.00 1.00 Area code : 2
 FDEPTH: 20 21 GearCond.code: 1
 BDEPTH: 20 21 Validity code:
 Towing dir: 290° Wire out: 100 m Speed: 30 kn*10
 Sorted: 96 Kg Total catch: 1193.00 CATCH/HOUR: 2386.00

DATE: 4/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 86
 start stop duration POSITION: Lat N 859 Long W 5945
 TIME : 19:46 20:16 30 (min) Purpose code: 3
 LOG : 1165.00 1166.00 0.70 Area code : 3
 FDEPTH: 62 61 GearCond.code: 1
 BDEPTH: 62 61 Validity code:
 Towing dir: 290° Wire out: 300 m Speed: 15 kn*10
 Sorted: 9 Kg Total catch: 59.10 CATCH/HOUR: 118.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macrondon ancyliodon	560.00	27.66	302
Isopisthus parvipinnis	506.00	21.21	
Anchoa spinifer	308.00	12.91	301
Xiphopenaus kroyeri	286.00	11.99	300
Nematopalaeon schmitti	176.00	7.38	
Cynoscion virescens	135.60	5.60	299
Stellifer sp	08.00	3.69	
Nebria microps	66.00	2.77	
Hemibarax amblyrhynchus	66.00	2.77	
Arius grandicassii	23.00	0.96	
Conodon nobilis	22.00	0.92	
Cynoscion acoupa	11.60	0.49	298
Dairdiella ronchus	11.00	0.46	
Trichiurus lepturus	11.00	0.46	
Odontognathus mucronatus	6.60	0.28	
Hemibarax amblyrhynchus	4.40	0.18	
Arius quadriscutis	2.60	0.11	
Pepilius paru	2.20	0.09	
Lolliguncula brevis	0.00		
Pallona harroweri	0.00		
Cynoscion sp	0.00		
Engraulis suryastole	0.00		
Penneus schmitti	0.00		
Penneus subtilis	0.00		
Total	2386.00	100.01	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Ctenosciaena gracilicirrus	16.40	264	13.87
Chirocentron bleekeri	15.20	268	12.86
Trichiurus lepturus	14.40	360	12.18
Cynoscion virescens	11.40	8	9.64
Cynoscion lelae	9.60	400	8.12
Arius grandicassii	8.60	6	7.28
Cynoscion acoupa	7.00	326	7.92
OCCOCEPHALIDAE	6.40	16	5.41
Macrondon ancyliodon	4.20	20	3.55
Rhisopriodon porosus	4.00	6	3.38
Sphyrana quachancho	3.00	2	2.54
Prionotus sp	2.40	24	2.03
MURANIDAE	2.40	8	2.03
Hemibarax amblyrhynchus	2.20	6	1.86
Forichthys sp	1.60	40	1.35
Synodus saurus	1.60	16	1.35
Menticirrhus americanus	1.20	2	1.02
Cyclopetta chittendeni	0.96	8	0.81
Isopisthus parvipinnis	0.80	8	0.68
Sagra bagre	0.80	8	0.68
Mustelus canis	0.80	4	0.68
Orthopristis ruber	0.80	4	0.68
Penneus subtilis	0.70	128	0.59
Lutjanus griseus	0.60	2	0.51
Polydactylus virginicus	0.60	2	0.51
Pepilius paru	0.40	2	0.34
Isopisthus parvipinnis	0.20	2	0.17
Stellifer sp	0.00	160	
Lepophidium sp	0.00	16	
Harengula jaguana	0.00	8	
Macrondon ancyliodon	0.00	16	
Anchoa sp	0.00	16	
Anchoa hepsetus	0.00	36	
Cynoscion sp	0.00	72	
Citharichthys sp	0.00	18	
Pallona harroweri	0.00	24	
OPHIDIIDAE	0.00	16	
Total	118.20	100.04	

DATE: 4/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 86
 start stop duration POSITION: Lat N 846 Long W 5943
 TIME : 15:40 16:10 30 (min) Purpose code: 3
 LOG : 1134.80 1136.40 1.60 Area code : 2
 FDEPTH: 30 32 GearCond.code: 1
 BDEPTH: 30 32 Validity code:
 Towing dir: 295° Wire out: 150 m Speed: 28 kn*10
 Sorted: 108 Kg Total catch: 757.30 CATCH/HOUR: 1514.60

DATE: 4/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 89
 start stop duration POSITION: Lat N 903 Long W 5943
 TIME : 21:10 21:40 30 (min) Purpose code: 3
 LOG : 1171.90 1172.50 0.60 Area code : 3
 FDEPTH: 65 66 GearCond.code: 1
 BDEPTH: 65 66 Validity code:
 Towing dir: 300° Wire out: 350 m Speed: 13 kn*10
 Sorted: 16 Kg Total catch: 32.55 CATCH/HOUR: 65.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macrondon ancyliodon	348.00	22.98	
Nematopalaeon schmitti	312.00	20.60	
Cynoscion virescens	304.60	290	303
Isopisthus parvipinnis	192.00	12.68	
Trichiurus lepturus	168.00	2640	
Xiphopenaus kroyeri	36.00	9840	
Cynoscion acoupa	26.60	4	304
Odontognathus mucronatus	24.00	3840	
Cynoscion sp	24.00	1440	
Carcharinus sp	18.20	6	
Sagra bagre	12.00	60	
Hemibarax amblyrhynchus	12.00	60	
Anchoa spinifer	12.00	2880	
Microposonias furnieri	12.00	60	
Stellifer sp	4.00	480	
Sagra marinus	3.60	2	
MURANIDAE	2.60	2	
Microposonias furnieri	1.60	2	
Nebria microps	0.60	2	
Pepilius paru	0.60	60	
Chaetopterus faber	0.00	60	
Anchoa sp	0.00	120	
Total	1514.60	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion nothus	14.40	700	
Penneus notialis	10.60	230	305
Trichiurus lepturus	10.20	180	15.67
Penneus subtilis	6.20	306	9.52
Ctenosciaena gracilicirrus	5.70	162	8.76
Shrimps, small, non comm.	4.20		6.45
Cynoscion steindachneri	4.20	54	6.45
Chirocentron bleekeri	3.00	498	4.61
Cynoscion acoupa	1.80	24	2.76
Ogococephalus sp	1.50	6	2.30
PORTUNIDAE	1.20	78	1.84
Mustelus canis	0.60	12	0.92
Diplacetrus sp	0.30	6	0.46
Prionotus sp	0.30	6	0.46
Synodus sp	0.30	24	0.46
Forichthys sp	0.30	72	0.46
Penneus schmitti	0.30	2	0.46
Squilla sp	0.00	6	
Lutjanus purpurus	0.00	18	
OPHICHTHIDAE	0.00	12	
Gymnothorax ocellatus	0.00	6	
TETRAODONTIDAE	0.00	6	
Anchoa hepsetus	0.00	36	
Dactylopterus volitans	0.00	6	
Citharichthys sp	0.00	12	
TRIGLIDAE	0.00	78	
Eucinostomus sp	0.00	12	
Lepophidium sp	0.00	12	
Saurida sp	0.00	30	
Total	65.10	99.98	

DATE: 4/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 87
 start stop duration POSITION: Lat N 849 Long W 5952
 TIME : 17:34 18:04 30 (min) Purpose code: 3
 LOG : 1149.80 1151.10 1.30 Area code : 3
 FDEPTH: 22 25 GearCond.code: 1
 BDEPTH: 22 25 Validity code:
 Towing dir: 320° Wire out: 125 m Speed: 26 kn*10
 Sorted: 43 Kg Total catch: 364.60 CATCH/HOUR: 729.20

DATE: 5/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 90
 start stop duration POSITION: Lat N 915 Long W 5957
 TIME : 06:23 06:53 30 (min) Purpose code: 3
 LOG : 1232.60 1233.30 0.70 Area code : 3
 FDEPTH: 67 69 GearCond.code: 1
 BDEPTH: 67 69 Validity code:
 Towing dir: 310° Wire out: 300 m Speed: 16 kn*10
 Sorted: 14 Kg Total catch: 99.20 CATCH/HOUR: 198.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichiurus lepturus	226.40	5376	
Macrondon ancyliodon	118.80	1372	15.88
Isopisthus parvipinnis	85.20	8520	11.68
Cynoscion virescens	61.40	102	8.42
Stellifer griseus	42.60	2716	5.84
Nebria microps	17.40	66	2.39
Arius grandicassii	17.20	18	2.36
Sagra bagre	15.60	124	2.14
Pallona harroweri	12.00	652	1.68
Sagra marinus	10.40	8	1.43
Lutjanus synagris	10.20	12	1.40
Harengula jaguana	10.00	240	1.37
Anchoa spinifer	8.00	1638	1.10
Chirocentron bleekeri	8.00	1.10	
Genystrampus luteus	8.00	40	1.10
Conodon nobilis	8.00	14	1.10
Caramx hippos	8.00	20	1.10
Larimus brevicaps	6.60	80	0.91
Stellifer microps	6.60	422	0.91
Menticirrhus americanus	6.60	20	0.91
Cynoscion acoupa	5.40	134	0.74
Pallona harroweri	5.40	0.74	
Rhisopriodon porosus	5.20	8	0.71
Gymnura micrura	5.00	2	0.69
Microposonias undulatus	5.00	6	0.69
Dasystia guttata	4.00	2	0.55
Carcharias acronotus	4.00	2	0.55
Pepilius paru	2.60	26	0.36
Penneus schmitti	2.00	14	0.27
Xiphopenaus kroyeri	1.40	80	0.19
Chloroscombrus chrysurus	1.40	14	0.19
Anisotremus surinamensis	1.40	2	0.19
Pepilius paru	1.30	2	0.18
Sphaeroides testudineus	1.00	2	0.14
Anchoa sp	0.00	26	
Xiphopenaus kroyeri	0.00	134	
Isopisthus parvipinnis	0.00	120	
Macrondon ancyliodon	0.00	40	
Stellifer sp	0.00	14	
Pepilius paru	0.00	412	
Lepophidium sp	0.00	14	
Anchoa hepsetus	0.00	160	
Anchoa sp	0.00	252	
Selene spixii	0.00	54	
Nematopalaeon schmitti	0.00		
Lolliguncula brevis	0.00	54	
Paralichthys brasiliensis	0.00	26	
JELLYFISH	0.00		
Total	729.20	100.03	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chirocentron bleekeri	30.40	1532	
Cynoscion nothus	25.60	1110	12.90
Ctenosciaena gracilicirrus	24.00	120	12.10
Penneus notialis	23.60	900	11.90
Lutjanus purpurus	15.00	8	7.56
Penneus subtilis	10.00	714	5.04
Cynoscion acoupa	8.60	54	4.33
Trichiurus lepturus	7.40	126	3.73
Pallona harroweri	6.40	176	3.23
Cynoscion steindachneri	6.40	64	3.23
Upeneus parvus	6.40	104	3.23
Rhomboplites aurorubens	4.60	42	2.32
Saurida brasiliensis	4.00	760	2.02
Prionotus sp	3.60	18	1.01
Lepophidium sp	3.20	192	1.61
Eucinostomus melanopterus	3.20	80	1.61
Sphyrana quachancho	2.60	10	1.31
Pepilius paru	2.40	24	1.21
Forichthys sp	2.00	56	1.01
Pomatomus saltatrix	2.00	2	1.01
Penneus notialis	1.60	10	0.81
Gymnothorax ocellatus	1.60	2	0.81
Prionanthus areolatus	0.45	2	0.45
Chloroscombrus chrysurus	0.00	16	0.40
TRIGLIDAE	0.00	48	0.40
Diapterus rhombus	0.00	8	0.40
Lutjanus synagris	0.40	2	0.20
Scorpaena brasiliensis	0.20	2	0.20
Lolliguncula brevis	0.00	16	
OPHICHTHIDAE	0.00	16	
Citharichthys sp	0.00	24	
Dactylopterus volitans	0.00	16	
Diplacetrus sp	0.00	16	
Engraulis suryastole	0.00	24	
Penneus brasiliensis	0.00	2	
Total	198.50	100.05	

PROJECT STATION: 104
 DATE: 9/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1049
 start stop duration Long W 6119
 TIME : 19:15 19:45 30 (min) Purpose code: 1
 LOG : 1710.90 1712.40 1.50 Area code : 4
 FDEPTH: 0 0 GearCond.code: 4
 BDEPTH: 35 40 Validity code:
 Towing dir: 270° Wire out: 50 m Speed: 28 kn*10
 Sorted: 4 Kg Total catch: 177.20 CATCH/HOUR: 354.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa lyolepis	115.20	25920	32.51	
Engraulis aenostole	96.00	20544	27.09	
Selene setapinnis	39.60	88	11.17	
Sphyræna guachancho	28.40	220	8.01	339
Chloroscombrus chrysurus	22.00	92	6.21	341
Chlorocentrodon bleekeriannus	12.80	5184	3.61	
Peprilus paru	10.60	66	2.99	340
Trachurus lathami	10.40	26	2.93	342
Priacanthus arenatus	3.60	6	1.02	
Hemicaranx amhielychnus	3.20	8	0.90	
Isoscephalus laevigatus	2.80	2	0.79	
Hachysentrus caninus	2.60	2	0.73	
Trichurus lepturus	2.40	208	0.68	
Cynoscion similis	2.40	10	0.68	
Sphyræna picudilla	1.20	4	0.34	
Porichthys sp.	0.80	64	0.23	
Loligo pealei	0.40	32	0.11	
Opisthonema oxlinum	0.00	64		
Cetengraulis edentulus	0.00	256		
Sardinella aurita	0.00	8		
Scomberomorus cavalla	0.00	8		
Total	354.40		100.00	

PROJECT STATION: 105
 DATE: 10/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1116
 start stop duration Long W 6049
 TIME : 02:05 02:35 30 (min) Purpose code: 1
 LOG : 1775.00 1796.90 1.90 Area code : 4
 FDEPTH: 0 0 GearCond.code: 4
 BDEPTH: 44 36 Validity code:
 Towing dir: 230° Wire out: 50 m Speed: 31 kn*10
 Sorted: 59 Kg Total catch: 59.00 CATCH/HOUR: 118.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa lyolepis	80.00	92800	67.80	345
Scomberomorus cavalla	10.70	2	9.07	
Sphyræna guachancho	8.40	16	7.12	
Harengula jaguana	4.00	632	4.14	344
Selar crumenophthalmus	4.60	64	3.90	343
Loligo pealei	3.20	256	2.78	
Sardinella aurita	3.20	128	2.78	
Decapterus punctatus	2.80	208	2.44	
Scomber japonicus	0.00	8		
Saurida sp. auvenicus	0.00	24		
Total	118.00		100.00	

PROJECT STATION: 106
 DATE: 10/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1113
 start stop duration Long W 6028
 TIME : 09:46 10:16 30 (min) Purpose code: 3
 LOG : 1834.40 1836.70 2.30 Area code : 4
 FDEPTH: 149 140 GearCond.code: 4
 BDEPTH: 149 140 Validity code:
 Towing dir: 150° Wire out: 600 m Speed: 40 kn*10
 Sorted: 22 Kg Total catch: 22.20 CATCH/HOUR: 44.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	27.00	372	60.81	346
Peristedion sp.	3.60	152	8.11	
Ogcocephalus parvus	2.00	10	4.50	
Loligo pealei	1.40	52	3.15	
Caulolatilus cyanops	1.40	6	3.15	
Ancylomyxus dilecta	1.20	14	2.70	
Priacanthus arenatus	1.00	4	2.25	
Upeneus parvus	1.00	14	2.25	
Diplectrum sp.	0.60	20	1.35	
Decodon puellaris	0.60	14	1.35	
Citharichthys sp.	0.40	8	0.90	
Antennarius sp.	0.20	2	0.45	
Eturus teron	0.20	2	0.45	
Synagrops sp.	0.00	2		
Priacanthus sp.	0.00	2		
Saurida sp.	0.00	12		
Callinectes sp.	0.00			
Squilla spp.ijdingi	0.00	8		
Total	40.60		91.42	

R/V DR. FRIDTJOF NANSEN PROJECT: SC CATCH DATA PROJECT STATION: 107
 DATE: 10/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1109
 start stop duration Long W 6023
 TIME : 11:33 11:53 20 (min) Purpose code: 3
 LOG : 1045.60 1046.00 0.40 Area code : 4
 FDEPTH: 300 390 GearCond.code: 5
 BDEPTH: 300 390 Validity code: 4
 Towing dir: 340° Wire out: 1000 m Speed: 4 kn*10
 Sorted: 36 Kg Total catch: 60.25 CATCH/HOUR: 180.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Steindachneria argenta	67.80	1500	37.51	
Synagrops bellus	33.90	453	10.76	
Mustelus canis	27.00	6	14.94	
Penaeopsis serrata	12.00	4020	6.64	
Torpedo sp.	5.10	3	2.82	
Polymixia lowei	4.20	171	2.32	
Polymetma corythasola	3.90	129	2.16	
Olophorus gracillirostris	3.60	1476	1.99	
Myxopterus nidulus	3.00	502	1.83	
S H R E M P S	3.00	1932	1.66	
Xenolepidichthys dalgleishi	2.40	114	1.33	
Lestrolepis intermedia	2.25	9	1.24	
Neospinnula orientalis	1.50	6	0.83	
Diodon sp.	1.50	3	0.83	
Diplophos sp.	1.50	204	0.83	
Hexanchus vitulus	1.50	3	0.83	
Priacanthus arenatus	1.35	3	0.75	
Scorpaena sp.	0.90	57	0.50	
Fonitina sp.	0.90	9	0.50	
Chauliodus sloani	0.90	60	0.50	
Chlorophthalmus sp.	0.60	15	0.33	
Nealotus tripes	0.60	3	0.33	
Peristedion gracile	0.45	12	0.25	
Parasudis sp.	0.30	9	0.17	
Ariomma melanum	0.30	3	0.17	
Rossia antillensis	0.00	3		
Ilex sp.	0.00	3		
Abraia sp.	0.00	15		
Pontocaris sp.	0.00	60		
Plesionika edwardsii	0.00	36		
Chaunax pictus	0.00	3		
PLEURONCTIDAE	0.00	6		
Cyttopsis roseus	0.00	3		
Coelacanthus sp.	0.00	3		
Zenion sp.	0.00	6		
Synchiropus agassizii	0.00	6		
Brotula sp.	0.00	3		
Argentina sp.	0.00	6		
Total	180.75		100.02	

PROJECT STATION: 108
 DATE: 10/ 2/88 GEAR TYPE: BT No:3 POSITION: Lat N 1057
 start stop duration Long W 6024
 TIME : 21:20 00:00 800 (min) Purpose code: 2
 LOG : 1924.30 2022.00 7.70 Area code : 4
 FDEPTH: 79 79 GearCond.code: 2
 BDEPTH: 79 79 Validity code:
 Towing dir: 162° Wire out: 120 m Speed: kn*10
 Sorted: 137 Kg Total catch: 137.10 CATCH/HOUR: 10.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Galacocerdo cuvieri	10.17		98.93	347
Rhizoprionodon porosus	0.11		1.07	
Total	10.28		100.00	

PROJECT STATION: 109
 DATE: 11/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1037
 start stop duration Long W 6021
 TIME : 13:00 13:28 20 (min) Purpose code: 3
 LOG : 2059.20 2059.40 0.20 Area code : 4
 FDEPTH: 129 116 GearCond.code: 4
 BDEPTH: 129 116 Validity code:
 Towing dir: 330° Wire out: 600 m Speed: 6 kn*10
 Sorted: 51 Kg Total catch: 75.25 CATCH/HOUR: 225.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	123.00	753	54.49	352
Scomber japonicus	37.50	177	16.61	349
Decapterus tabl	28.50	126	12.62	348
Ariomma regulus	27.60	126	12.23	350
Loligo pealei	3.90	166	1.73	351
Pristipomoides macrophthalmus	3.30	12	1.46	
Epinephelus flavolineatus	1.50	3	0.66	
Ariomma melanum	0.30	3	0.13	
Upeneus parvus	0.15	3	0.07	
Total	225.75		100.00	

PROJECT STATION: 110
 DATE: 11/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1031
 start stop duration Long W 6027
 TIME : 17:05 17:35 30 (min) Purpose code: 3
 LOG : 2088.70 2088.80 0.10 Area code : 4
 FDEPTH: 80 81 GearCond.code: 4
 BDEPTH: 80 81 Validity code:
 Towing dir: 20° Wire out: 400 m Speed: 2 kn*10
 Sorted: 15 Kg Total catch: 15.60 CATCH/HOUR: 31.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorbens	11.20	368	35.90	354
Loligo sp.	6.40	462	20.51	355
Trachurus lathami	6.20	1406	19.87	356
Priacanthus arenatus	2.60	12	0.33	
Pristipomoides macrophthalmus	2.60	76	0.33	353
Lutjanus synagris	0.60	4	1.92	
Saurida sp.	0.40	6	1.28	
Haemulon sp.	0.40	2	1.28	
Haemulon steindachneri	0.20	2	0.64	
Selene setapinnis	0.10	6	0.32	
Decapterus punctatus	0.10	6	0.32	
Trichurus lepturus	0.10	6	0.32	
Upeneus parvus	0.10	6	0.32	
Haemulon striatum	0.10	12	0.32	
OPISTOGNATHIDAE	0.00	2		
Synodus sp.	0.00	2		
Rucinostomus sp.	0.00	2		
Haemulon boehmiae	0.00	2		
Ariomma regulus	0.00	2		
Diplectrum sp.	0.00	2		
Total	31.20		99.98	

PROJECT STATION: 97
 DATE: 5/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 932 Long W 6009
 start stop duration
 TIME : 21:13 21:43 30 (min) Purpose code: 3
 LOG : 1341.50 1342.60 1.10 Area code : 3
 FDEPTH: 20 69 GearCond.code: 8
 BDEPTH: 20 69 Validity code: 9
 Towing dir: 270° Wire out: 350 m Speed: 23 kn*10
 Sorted: 6g Total catch: CATCH/HOUR:

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 NO CATCH 0.00
 Total

PROJECT STATION: 90
 DATE: 6/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 927 Long W 6036
 start stop duration
 TIME : 11:34 12:04 30 (min) Purpose code: 3
 LOG : 1460.90 1462.00 1.10 Area code : 3
 FDEPTH: 20 19 GearCond.code: 8
 BDEPTH: 20 19 Validity code: 9
 Towing dir: 315° Wire out: 100 m Speed: 19 kn*10
 Sorted: 36 Kg Total catch: 21.60 CATCH/HOUR: 423.20

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Trichurus lepturus 72.00 2912 17.20
 Macrion ancylodon 56.00 952 13.23
 Anchoa spinifer 44.00 4760 10.59
 Inopisthus parvipinnis 28.00 672 6.62
 Harengula jaguana 28.00 1120 6.62
 Anchoa hepsetus 28.00 4816 6.62
 Bagro bagro 16.00 56 3.97
 Anchoviella sp 16.00 2104 3.97
 Chirocentrodon bleekorianus 16.00 2240 3.97
 Pellona harroweri 16.00 1960 3.97
 Opisthonema oglinum 16.00 392 3.97
 Caranx crynos 13.60 6 3.21
 Rhinoptera bonasus 12.60 4 2.90
 Cynoscion virens 6.60 2 1.56
 Trichurus lepturus 6.60 6 1.47
 Selene sp 5.60 1680 1.32
 Peprilus paru 5.60 112 1.32
 Scomberomorus sp 5.60 260 1.32
 Lycengraulis grossidens 4.60 4 1.09
 Scomberomorus cavalla 3.60 2 0.85
 Caranx crynos 3.60 2 0.85
 Chaetodipterus faber 2.60 4 0.61
 Rhizoprionodon porosus 2.60 4 0.61
 Arius grandicaudis 2.00 2 0.47
 Penaeus schmitti 1.60 20 0.38 328
 Sphyrna lewini 1.00 2 0.24
 Aliphananus kroyeri 0.40 4 0.19 329
 Penaeus subtilis 0.40 12 0.09 330
 Total 423.20 100.00

PROJECT STATION: 99
 DATE: 6/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 936 Long W 6043
 start stop duration
 TIME : 13:21 13:51 30 (min) Purpose code: 3
 LOG : 1473.80 1474.00 1.00 Area code : 3
 FDEPTH: 30 33 GearCond.code: 8
 BDEPTH: 30 33 Validity code: 9
 Towing dir: 305° Wire out: 150 m Speed: 21 kn*10
 Sorted: 6g Total catch: CATCH/HOUR:

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 JELLYFISH 0.00
 Hemicaranx amblyrhynchus 0.00
 Rhizoprionodon porosus 0.00
 Chaetodipterus faber 0.00
 Total

PROJECT STATION: 100
 DATE: 6/ 2/88 GEAR TYPE: BT No:2 POSITION: Lat N 940 Long W 6043
 start stop duration
 TIME : 14:29 14:50 21 (min) Purpose code: 1
 LOG : 1478.60 1479.30 0.70 Area code : 3
 FDEPTH: 33 33 GearCond.code: 8
 BDEPTH: 45 45 Validity code: 9
 Towing dir: 330° Wire out: 100 m Speed: 22 kn*10
 Sorted: 4 Kg Total catch: 17.20 CATCH/HOUR: 49.14

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Anchoviella sp 14.29 3517 29.00
 Anchoa hepsetus 12.57 1894 25.58 331
 Anchoa lyolepis 10.71 3000 21.79
 Opisthonema oglinum 3.71 326 7.55 332
 Loligo pealei 3.57 894 7.26
 Selene setapinnis 2.29 6 4.66
 Scomberomorus sp 1.71 109 3.48
 Sardinella aurita 0.29 66 0.59 333
 Anchoa fillifera 0.00 17
 Engraulis eurystole 0.00 37
 Engraulis eurystole 0.00 54
 Total 49.14 99.99

PROJECT STATION: 101
 DATE: 6/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 939 Long W 6051
 start stop duration
 TIME : 16:09 16:16 0.7 (min) Purpose code: 1
 LOG : 1490.00 1490.10 0.10 Area code : 3
 FDEPTH: 20 21 GearCond.code: 8
 BDEPTH: 20 21 Validity code: 3
 Towing dir: 300° Wire out: 100 m Speed: 25 kn*10
 Sorted: 10 Kg Total catch: 84.75 CATCH/HOUR: 726.43

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Harengula jaguana 214.29 17143 29.50
 Peprilus paru 68.57 1629 9.44
 Trichurus lepturus 68.57 1971 9.44
 Anchoa spinifer 47.14 4971 6.49
 Anchoa hepsetus 42.86 5743 5.90
 Macrion ancylodon 42.86 1029 5.90
 Pellona harroweri 34.29 11743 4.72
 Chirocentrodon bleekorianus 25.71 3171 3.54
 Anchoviella sp 25.71 12343 3.54
 Stellifer sp 25.71 3686 3.54
 Sphyrana quachancho 25.71 257 3.54
 Xiphopenaus kroyeri 20.57 4783 2.83
 Nebris microps 17.14 171 2.36
 Isopisthus parvipinnis 17.14 343 2.36
 Scomberomorus cavalla 8.57 86 1.18
 Arius sp 8.57 343 1.18
 Opisthonema oglinum 7.71 9 1.06
 Rhizoprionodon porosus 4.29 86 0.59
 Paralichthys elegans 4.29 257 0.59
 Bagro bagro 2.57 60 0.35
 Penaeus schmitti 1.71 86 0.24
 Polydactylus virginicus 1.71 86 0.24
 Lycengraulis grossidens 1.29 77 0.18
 Penaeus subtilis 0.86 86 0.12
 Engraulis sp 0.00 171
 Selene sp 0.00 171
 Total 726.43 100.01

PROJECT STATION: 102
 DATE: 6/ 2/88 GEAR TYPE: BT No:4 POSITION: Lat N 953 Long W 6121
 start stop duration
 TIME : 21:43 22:13 30 (min) Purpose code: 1
 LOG : 1547.50 1549.00 1.50 Area code : 3
 FDEPTH: 0 0 GearCond.code: 8
 BDEPTH: 53 77 Validity code: 9
 Towing dir: 338° Wire out: 50 m Speed: 30 kn*10
 Sorted: 36 Kg Total catch: 172.40 CATCH/HOUR: 344.80

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Cetengraulis edentulus 168.00 10720 40.72
 Opisthonema oglinum 52.00 4160 15.00
 Harengula jaguana 48.00 5952 13.92
 Engraulis eurystole 28.00 9240 8.12
 Pellona harroweri 12.00 2640 3.48
 Trichurus lepturus 8.00 160 2.32
 Anchoa hepsetus 6.00 480 1.74
 Anchoviella sp 6.00 320 1.74
 Anchoa spinifer 4.00 1040 1.16
 Peprilus paru 4.00 120 1.16
 Penaeus schmitti 2.20 4 0.64
 Chirocentrodon bleekorianus 2.00 160 0.50
 Scomberomorus sp 1.60 10 0.46
 Lycengraulis grossidens 1.00 4 0.29
 Rhizoprionodon porosus 0.80 160 0.23
 Selene setapinnis 0.80 6 0.23
 Macrion ancylodon 0.40 80 0.12
 Chloroscombrus chrysurus 0.40 80
 Sphyrana sp 0.00 40
 Total 344.80 99.99

PROJECT STATION: 103
 DATE: 9/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047 Long W 6133
 start stop duration
 TIME : 16:05 16:35 30 (min) Purpose code: 1
 LOG : 1686.50 1687.70 1.20 Area code : 4
 FDEPTH: 35 36 GearCond.code: 8
 BDEPTH: 35 36 Validity code: 9
 Towing dir: 250° Wire out: 200 m Speed: 25 kn*10
 Sorted: 30 Kg Total catch: 203.40 CATCH/HOUR: 406.80

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Cynoscion jamaicensis 111.60 756 27.43 335
 Chirocentrodon bleekorianus 103.20 36120 25.37 336
 Peprilus paru 45.40 106 11.16
 Micropogonias furnieri 29.20 24 7.18
 Selene setapinnis 28.60 48 7.03 337
 Ctenosciaena gracilicirrus 19.80 74 4.87
 Trichurus lepturus 13.00 662 3.39
 Engraulis eurystole 12.00 3384 2.95 338
 Caranx hippos 11.60 2 2.85
 Loligo pealei 8.40 720 2.06
 Chaetodipterus faber 4.60 2 1.13
 Lutjanus synagris 4.50 12 1.11
 Scomberomorus cavalla 2.20 2 0.54
 Penaeus subtilis 1.80 72 0.44
 Synodus poeyi 1.80 6 0.44
 Prionotus sp 1.80 4 0.44
 Cyclosetta chittandani 1.40 2 0.34
 Opisthonema oglinum 0.60 6 0.15
 Remora sp 0.00 6
 Porichthys sp 0.00 6
 Harengula jaguana 0.00 6
 Eucinostomus sp 0.00 6
 Chloroscombrus chrysurus 0.00 6
 Acanthostracion quadricornis 0.00 6
 Rhomboplites aurorubens 0.00 6
 Haemulon steindachneri 0.00 12
 Total 406.90 100.01

DATE: 13/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1007
 start stop duration Long W 6000
 TIME : 14:46 15:16 30 (min) Purpose code: 3
 LOG : 2422.60 2423.60 1.00 Area code : 4
 FDEPTH: 406 407 GearCond.code:
 DDEPTH: 406 407 Validity code: 3
 Towing dir: 350° Wire out: 1400 m Speed: 24 kn*10

Sorted: 2 Kg Total catch: 2.60 CATCH/HOUR: 5.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Illex illecebrosus</i>	3.00 18	57.69	
<i>Plecticus robustus</i>	1.60 60	30.77	368
<i>Laemonema</i> sp	0.30 2	5.77	
<i>Panaeopsis serrata</i>	0.30 30	5.77	
<i>Glyphocrangon</i> sp	0.00 2		
<i>Bathynomus giganteus</i>	0.00 2		
Total	5.20	100.00	

DATE: 13/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1003
 start stop duration Long W 5959
 TIME : 17:40 18:40 60 (min) Purpose code: 3
 LOG : 2441.90 2443.50 1.60 Area code : 4
 FDEPTH: 353 324 GearCond.code:
 DDEPTH: 353 324 Validity code:
 Towing dir: 320° Wire out: 1200 m Speed: 18 kn*10

Sorted: 30 Kg Total catch: 98.90 CATCH/HOUR: 98.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Zenion</i> sp.	27.60 5126	27.91	
<i>Synagrops</i> bellus	24.00 560	24.27	
<i>Polynixia lowei</i>	14.20 266	14.36	
<i>Steindachneria argentea</i>	10.00 504	10.92	
<i>Illex illecebrosus</i>	7.40 124	7.48	369
<i>Panaeopsis serrata</i>	7.20 1584	7.20	
<i>Coelorrhinus</i> sp	1.80 84	1.82	
<i>Peristidion gracile</i>	1.80 156	1.82	
<i>Squatina dumacii</i>	1.70 84	1.72	
<i>Epigonus</i> sp	1.20 168	1.21	
<i>Pontinus longispinus</i>	0.50 5	0.51	
<i>Merluccius albidus</i>	0.30 1	0.30	
<i>Poristadion</i> sp	0.20 2	0.20	
<i>Bembrops anaticrontrix</i>	0.20 2	0.20	
<i>Glyphocrangon</i> sp	0.00 12		
<i>Polychelus</i> sp.	0.00 12		
<i>Nephropsis</i> sp	0.00 12		
<i>Trichurus lepturus</i>	0.00 1		
Total	98.90	100.00	

DATE: 14/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1007
 start stop duration Long W 6057
 TIME : 00:52 01:22 30 (min) Purpose code: 1
 LOG : 2508.50 2510.10 1.60 Area code : 4
 FDEPTH: 0 0 GearCond.code:
 DDEPTH: 20 20 Validity code:
 Towing dir: 195° Wire out: 50 m Speed: 34 kn*10

Sorted: 16 Kg Total catch: 79.30 CATCH/HOUR: 158.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Anchoa spinifer</i>	60.80 35546	43.38	371
<i>Engraulis eurystole</i>	28.80 8886	18.16	370
<i>Trichurus lepturus</i>	12.80 944	8.07	
<i>Opiationema ogilinum</i>	10.00 62	6.31	372
<i>Chirocentrodon bleekeriaianus</i>	8.00 2934	5.04	
<i>Anchoa viella</i> sp	6.40 704	4.04	
<i>Cynoscion jamaicensis</i>	6.40 304	4.04	
<i>Haemulon jaguana</i>	6.40 896	4.04	
<i>Sardinella aurita</i>	4.80 592	3.03	
<i>Sphyraena quachancho</i>	2.60 8	1.64	
<i>Trichurus lepturus</i>	1.60 2	1.01	
<i>Opiationema ogilinum</i>	0.80 80	0.50	
<i>Chloroscomber chrysurus</i>	0.40 48	0.25	
<i>Pellona harroweri</i>	0.40 80	0.25	
<i>Scomberomorus cavalla</i>	0.40 40	0.25	
<i>Loligo pealei</i>	0.00 32		
Total	158.60	100.01	

DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1046
 start stop duration Long W 6234
 TIME : 09:53 10:23 30 (min) Purpose code: 3
 LOG : 2025.10 2056.60 1.50 Area code : 3
 FDEPTH: 77 80 GearCond.code:
 DDEPTH: 77 80 Validity code:
 Towing dir: 287° Wire out: 400 m Speed: 31 kn*10

Sorted: 19 Kg Total catch: 1002.10 CATCH/HOUR: 2004.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Trichurus lepturus</i>	1400.00 1200	69.85	
<i>Trachurus lathami</i>	400.00 1842	19.96	373
<i>Sardinella aurita</i>	127.20 1616	6.35	374
<i>Synodus foetens</i>	40.60 60	2.03	
<i>Gymnothorax ocellatus</i>	13.20 20	0.66	
<i>Priacanthus arenatus</i>	11.20 30	0.56	
<i>Cynoscion jamaicensis</i>	3.00 30	0.15	
<i>Epinephelus morio</i>	3.00 10	0.15	
<i>Scomber japonicus</i>	2.00 10	0.10	
<i>Panaeopsis serrata</i>	1.20 24	0.06	375
<i>Loligo pealei</i>	1.00 40	0.05	
<i>Scorpena brasiliensis</i>	1.00 10	0.05	
<i>Pristipomoides macrocephalus</i>	0.40 10	0.02	
<i>Serranus tabacarius</i>	0.40 40	0.02	
<i>Loligo plei</i>	0.00 10		
<i>Saurida</i> sp	0.00 40		
<i>Synodus foetens</i>	0.00 10		
Total	2004.20	100.01	

DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047
 start stop duration Long W 6242
 TIME : 11:25 11:50 25 (min) Purpose code: 3
 LOG : 2035.30 2036.40 1.10 Area code : 3
 FDEPTH: 64 53 GearCond.code:
 DDEPTH: 64 53 Validity code:
 Towing dir: 242° Wire out: 300 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 63.00 CATCH/HOUR: 151.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Synodus foetens</i>	42.72 86	28.25	
<i>Trachurus lathami</i>	37.44 168	24.76	378
<i>Orthopristis ruber</i>	14.16 43	9.37	
<i>Priacanthus arenatus</i>	13.92 14	9.21	
<i>Scorpena brasiliensis</i>	9.60 10	6.35	
<i>Ctenosciaena gracilicirrhus</i>	7.20 77	4.76	
<i>Serranus dewegeri</i>	6.96 10	4.60	
<i>Epinephelus morio</i>	4.80 2	3.17	
<i>Paralichthys tropicus</i>	4.44 5	2.94	
<i>Trichurus lepturus</i>	2.88 24	1.90	
<i>Loligo pealei</i>	1.92 72	1.27	376
<i>Cynoscion jamaicensis</i>	1.44 10	0.95	
<i>Gymnothorax ocellatus</i>	1.44 10	0.95	
<i>Serranus tabacarius</i>	0.96 53	0.63	
<i>Haemulon steindachneri</i>	0.72 10	0.48	
<i>Loligo plei</i>	0.72 50	0.48	377
<i>Panaeopsis serrata</i>	0.00 5		
<i>Saurida</i> sp Juveniles	0.00 5		
<i>Prionotus punctatus</i>	0.00 5		
<i>Diplacturus formosum</i>	0.00 5		
Total	151.20	100.07	

DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1045
 start stop duration Long W 6248
 TIME : 12:35 13:05 30 (min) Purpose code: 3
 LOG : 2042.10 2043.60 1.50 Area code : 3
 FDEPTH: 24 22 GearCond.code:
 DDEPTH: 24 22 Validity code:
 Towing dir: 245° Wire out: 100 m Speed: 30 kn*10

Sorted: 30 Kg Total catch: 447.50 CATCH/HOUR: 895.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Bagre marinus</i>	309.40 5242	34.57	
<i>Sphyraena quachancho</i>	223.60 806	24.90	
<i>Anchoa lyolepis</i>	143.40 10428	16.02	379
<i>Chirocentrodon bleekeriaianus</i>	109.20 69960	12.20	380
<i>Eugerres plumieri</i>	37.60 324	4.20	
<i>Cynoscion jamaicensis</i>	26.00 234	2.91	
<i>Trichurus lepturus</i>	15.60 260	1.74	
<i>Orthopristis ruber</i>	6.40 40	0.72	
<i>Archosargus rhomboidalis</i>	5.20 26	0.58	
<i>Ctenosciaena gracilicirrhus</i>	5.20 26	0.58	
<i>Chloroscomber chrysurus</i>	5.20 26	0.58	
<i>Micropogonias furnieri</i>	3.00 2	0.34	
<i>Rhizoprionodon porosus</i>	2.60 26	0.29	
<i>Pellona harroweri</i>	2.60 130	0.29	
<i>Lagocephalus laevigatus</i>	0.00 26		
<i>Symphurus</i> sp	0.00 26		
<i>Lolliguncula brovia</i>	0.00 162		
<i>Loligo plei</i>	0.00 104		
<i>Trachurus lathami</i>	0.00 26		
Total	895.00	100.00	

DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1100
 start stop duration Long W 6266
 TIME : 15:00 15:30 30 (min) Purpose code: 3
 LOG : 2062.00 2063.60 1.60 Area code : 3
 FDEPTH: 51 50 GearCond.code:
 DDEPTH: 51 50 Validity code:
 Towing dir: 180° Wire out: 250 m Speed: 32 kn*10

Sorted: 62 Kg Total catch: 365.30 CATCH/HOUR: 730.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Sardinella aurita</i>	407.00 5098	55.71	382
<i>Haemulon boschmae</i>	206.80 10546	20.31	
<i>Haemulon steindachneri</i>	31.40 308	4.30	
<i>Selene setapinnis</i>	29.20 70	4.00	381
<i>Loligo plei</i>	14.20 1160	1.94	383
<i>Priacanthus arenatus</i>	9.80 80	1.34	
<i>Mustelus higmani</i>	6.80 10	0.93	
<i>Pepilius paru</i>	5.00 14	0.68	
<i>Scorpena brasiliensis</i>	3.20 12	0.44	
<i>Pristipomoides macrocephalus</i>	2.20 252	0.30	
<i>Upeneus parvus</i>	2.20 22	0.30	
<i>Synodus foetens</i>	2.20 12	0.30	
<i>Balistes vetula</i>	2.20 8	0.30	
<i>Gymnothorax ocellatus</i>	1.60 12	0.22	
<i>Serranus dewegeri</i>	1.20 12	0.16	
<i>Lutjanus purpuraceus</i>	1.20 12	0.16	
<i>Trachurus lathami</i>	1.20 12	0.16	
<i>Loligo pealei</i>	1.20 32	0.16	
<i>Pistularia petimba</i>	1.00 2	0.14	
<i>Aluterus</i> sp	0.50 2	0.07	
<i>Panaeopsis serrata</i>	0.50 6	0.07	
<i>Haemulon melanurum</i>	0.00 12		
<i>Eucinostomus gula</i>	0.00 12		
<i>Saurida</i> sp	0.00 12		
Total	730.60	99.99	

DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106
 start stop duration Long W 6250
 TIME : 16:50 17:30 30 (min) Purpose code: 3
 LOG : 2075.50 2077.10 1.60 Area code : 3
 FDEPTH: 25 29 GearCond.code:
 DDEPTH: 25 29 Validity code:
 Towing dir: 145° Wire out: 200 m Speed: 32 kn*10

Sorted: 46 Kg Total catch: 761.10 CATCH/HOUR: 1522.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Balistes vetula</i>	1385.60 5542	91.03	384
<i>Haemulon aurolineatum</i>	25.60 416	1.60	
<i>Rhizoprionodon porosus</i>	22.20 6	1.46	
<i>Haemulon plumieri</i>	19.20 32	1.26	
<i>Holocentrus rufus</i>	16.00 120	1.05	
<i>Haemulon melanurum</i>	16.00 160	1.05	
<i>Chilomycterus antillarum</i>	12.80 64	0.84	
<i>Acanthostracion quadricornis</i>	12.80 64	0.84	
<i>Lutjanus analis</i>	11.40 2	0.75	
<i>Chaetodon striatus</i>	0.20 2	0.01	
<i>Chaetodon ocellatus</i>	0.20 2	0.01	
Total	1522.00	99.98	

PROJECT STATION: 127
 DATE: 16/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1127 Long W 6250
 start stop duration Purpose code: 3
 TIME : 20:30 21:00 30 (min) Area code : 3
 LOG : 2907.10 2907.00 0.70 GearCond.code: 3
 FDEPTH: 70 70 Validity code:
 DDEPTH: 70 70
 Towing dir: 105° Wire out: 350 m Speed: 14 kn*10
 Sorted: 24 Kg Total catch: 126.30 CATCH/HOUR: 252.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon boacimae	122.00	7320	40.30	307
Pristipomoides macrophthalmus	34.00	950	13.46	389
Priacanthus aronatus	27.00	170	10.69	
Haemulon melanurum	23.00	570	9.11	386
Mustelus higmani	13.00	6	5.15	
Rhombolites aurorubens	10.00	200	3.96	380
Nooplinus orientalis	8.00	300	3.17	
Lolliguncula brevis	2.00	70	0.79	
Aricomma melanura	2.00	20	0.79	
Upeneus parvus	2.00	70	0.79	
Plesionika edwardsii	1.00	1500	0.40	
Equetus sp.	1.00	30	0.40	
Loligo plei	1.00	58	0.40	
Synodus foetens	1.00	10	0.40	
Saurida sp.	1.00	30	0.40	
Adioryx bellisi	1.00	10	0.40	
Ophidion sp.	1.00	10	0.40	
Mullus auratus	1.00	40	0.40	
Decapterus tabl	0.50	10	0.20	
Myripristis jacobus	0.50	30	0.20	
Haemulon chrysargyrum	0.50	30	0.20	
Penaeus brasiliensis	0.10	6	0.04	385
Loligo pealei	0.00	10		
SCYLLARIDAE	0.00	10		
APOGONIDAE	0.00	30		
Prionotus sp	0.00	10		
Total	252.60		100.05	

PROJECT STATION: 131
 DATE: 17/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1048 Long W 6323
 start stop duration Purpose code: 3
 TIME : 08:30 09:00 30 (min) Area code : 3
 LOG : 3009.30 3011.10 1.80 GearCond.code: 3
 FDEPTH: 37 36 Validity code:
 DDEPTH: 37 36
 Towing dir: 260° Wire out: 200 m Speed: 32 kn*10
 Sorted: 31 Kg Total catch: 302.40 CATCH/HOUR: 764.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Harengula jaguana	391.20	6660	51.15	397
Sardinella aurita	165.60	2304	21.65	398
Chirocentron bleakerianus	64.80	15422	8.47	
Pellona harroweri	52.80	1000	6.98	
Trichurus lathami	36.40	144	5.02	
Trichurus lepturus	13.20	240	1.73	
Ophioscion punctatissimus	9.60	552	1.26	
Loligo pealei	7.20	240	0.94	
Penaeus notialis	5.40	250	0.71	396
Lolliguncula brevis	4.80	1320	0.63	
Penaeus brasiliensis	3.60	16	0.47	395
Cynoscion sp	2.40	96	0.31	
Paralichthys elegans	2.40	48	0.31	
Porichthys sp	2.40	24	0.31	
Scorpaena plumieri	0.80	2	0.10	
Sphyræna guachancho	0.24	48	0.03	
Bairdiella sp	0.00	48		
Eucinostomus sp	0.00	24		
Diplacrum formosum	0.00	24		
Micropogonias furnieri	0.00	24		
Anchoa hepsetus	0.00	48		
Anchoa lyolepis	0.00	96		
SCOMBRIDAE	0.00	2		
Total	764.04		99.99	

PROJECT STATION: 128
 DATE: 17/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1108 Long W 6313
 start stop duration Purpose code: 1
 TIME : 01:05 01:35 30 (min) Area code : 3
 LOG : 2950.90 2952.60 1.70 GearCond.code: 3
 FDEPTH: 0 0 Validity code:
 DDEPTH: 25 25
 Towing dir: Wire out: 50 m Speed: 32 kn*10
 Sorted: 35 Kg Total catch: 103.11 CATCH/HOUR: 366.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa lyolepis	150.00	79126	40.96	391
Engraulis aurystole	108.00	23626	29.49	390
Sardinella aurita	52.00	7578	14.20	392
Sphyræna guachancho	45.00	116	12.29	
Scomberomorus cavalla	3.60	2	0.98	
Bagre marinus	3.00	2	0.82	
Mustelus higmani	2.20	2	0.60	
Prionotus punctatus	0.70	2	0.19	
Peprilus paru	0.70	2	0.19	
Selar crassirostris	0.52	6	0.14	
Chirocentrus chrysurus	0.50	4	0.14	
Scobrionidae juveniles	0.00	80		
Loligo plei	0.00	200		
Saurida sp juveniles	0.00	760		
Chirocentron bleakerianus	0.00	200		
Total	366.22		100.00	

PROJECT STATION: 132
 DATE: 17/ 2/88 GEAR TYPE: PT No:2 POSITION: Lat N 1044 Long W 6330
 start stop duration Purpose code: 1
 TIME : 10:55 11:40 45 (min) Area code : 3
 LOG : 3028.30 3030.90 2.60 GearCond.code: 3
 FDEPTH: 10 10 Validity code:
 DDEPTH: 27 27
 Towing dir: 260° Wire out: 50 m Speed: 31 kn*10
 Sorted: 49 Kg Total catch: 49.21 CATCH/HOUR: 65.61

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scomberomorus cavalla	18.60	3	28.35	399
Sphyræna guachancho	14.80	19	22.56	
Euthynnus alletoratus	11.07	3	16.87	400
Gymnura micrura	5.00	1	7.62	
Peprilus paru	4.07	12	6.20	
Trachurus lathami	2.73	8	4.16	
Chirocentrus chrysurus	1.53	3	2.33	
Trachinotus carolinus	1.53	1	2.33	
Orthorhynchus ruber	1.47	8	2.24	
Pellona harroweri	1.15	53	1.75	401
Harengula jaguana	1.07	28	1.63	402
Stallifer tristrifer	0.97	20	1.48	
Bagre marinus	0.55	16	0.84	
Archoanargus rhomboidalis	0.47	1	0.72	
Porichthys sp	0.20	1	0.30	
Rhizoprionodon poronus	0.15	1	0.22	
Stallifer microps	0.13	4	0.20	
Sardinella aurita	0.13	3	0.20	
Lolliguncula brevis	0.00	1		
Loligo pealei	0.00	3		
Loligo plei	0.00	3		
Penaeus notialis	0.00	1		
Larimus brovieus	0.00	1		
Scobrionidae juveniles	0.00	1		
Cynoscion jamaicensis	0.00	1		
Echeneis naucrates	0.00	3		
Total	65.62		100.01	

PROJECT STATION: 129
 DATE: 17/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1044 Long W 6305
 start stop duration Purpose code: 1
 TIME : 05:07 05:37 30 (min) Area code : 3
 LOG : 2986.60 2988.20 1.60 GearCond.code: 3
 FDEPTH: 0 0 Validity code:
 DDEPTH: 30 27
 Towing dir: 270° Wire out: 50 m Speed: 30 kn*10
 Sorted: 34 Kg Total catch: 2890.00 CATCH/HOUR: 5780.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	540.00	67854	94.12	393
Harengula jaguana	340.00	9180	5.08	394
Pellona harroweri	0.00	170		
Trichurus lepturus	0.00	170		
Total	5780.00		100.00	

PROJECT STATION: 133
 DATE: 17/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047 Long W 6334
 start stop duration Purpose code: 3
 TIME : 12:42 13:12 30 (min) Area code : 3
 LOG : 3038.30 3040.00 1.70 GearCond.code: 3
 FDEPTH: 34 31 Validity code:
 DDEPTH: 34 31
 Towing dir: 207° Wire out: 200 m Speed: 31 kn*10
 Sorted: 30 Kg Total catch: 251.60 CATCH/HOUR: 503.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Harengula jaguana	310.00	9324	61.76	404
Sphyræna guachancho	53.20	62	10.57	403
Sardinella aurita	36.40	574	7.23	405
Rhizoprionodon poronus	32.00	42	6.36	
Cynoscion jamaicensis	15.40	42	3.06	
Pellona harroweri	15.40	630	3.06	
Orthorhynchus ruber	11.20	56	2.23	
Trichurus lepturus	7.00	210	1.39	
Chirocentron bleakerianus	5.60	1344	1.11	
Anchoa lyolepis	4.20	798	0.83	
Loligo plei	2.40	72	0.48	
Paralichthys tropicus	2.10	14	0.42	
Ctenosciaena gracilicirrus	1.40	210	0.28	
Sphyræna guachancho	1.40	14	0.28	
Bagre marinus	1.40	14	0.28	
Scobrionidae juveniles	1.40	42	0.28	
Penaeus notialis	0.00	46	0.16	
Opisthonema oglinum	0.70	56	0.14	
Loligo pealei	0.40	28	0.08	
Penaeus brasiliensis	0.00	4		
Lolliguncula brevis	0.00	8		
Total	503.20		100.00	

PROJECT STATION: 130
 DATE: 17/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1044 Long W 6313
 start stop duration Purpose code: 3
 TIME : 06:15 07:24 30 (min) Area code : 3
 LOG : 2998.40 3000.00 1.60 GearCond.code: 3
 FDEPTH: 15 15 Validity code:
 DDEPTH: 15 15
 Towing dir: 255° Wire out: 100 m Speed: 35 kn*10
 Sorted: 22 Kg Total catch: 217.00 CATCH/HOUR: 434.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Bagre marinus	131.40	7112	30.28	
Harengula jaguana	84.60	2130	19.49	
Stallifer tristrifer	43.20	1476	9.95	
Paralichthys brasiliensis	41.40	216	9.54	
Larimus brovieus	32.40	234	7.47	
Sardinella aurita	21.60	270	4.90	
Trichurus lepturus	14.40	396	3.32	
Dasyatis guttata	13.00	2	3.00	
Pellona harroweri	10.00	450	2.49	
Paralichthys tropicus	6.40	20	1.47	
Cynoscion leirichus	5.40	36	1.24	
Archoanargus rhomboidalis	5.00	10	1.15	
Conion nobilis	4.60	62	1.06	
Rhinobatos percellens	3.60	18	0.83	
Anchoa trinitatis	3.60	576	0.83	
Orthorhynchus ruber	3.60	72	0.83	
Lolliguncula brevis	1.80	180	0.41	
Xiphopenaeus kroyeri	1.80	432	0.41	
Cynoscion sp	1.80	288	0.41	
Trachurus lathami	1.20	4	0.28	
Anchoa lyolepis	0.90	90	0.21	
Porichthys sp	0.90	54	0.21	
Peprilus paru	0.40	2	0.09	
Penaeus schmitti	0.20	4	0.05	
Achirus lineatus	0.00	18		
Synodus nigricans	0.00	18		
Cetengraulis edentulus	0.00	36		
Chirocentron bleakerianus	0.00	90		
Total	434.00		100.00	

DATE:17/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 134
 start stop duration POSITION:Lat N 1041
 TIME : 14:16 14:46 30 (min) Purpose code: 3 Long W 6340
 LOG :3049.70 3051.20 1.50 Area code : 3
 FDEPTH: 23 22 GearCond.code:
 BDEPTH: 23 22 Validity code:
 Towing dir: 300° Wire out: 150 m Speed: 32 kn*10

Sorted: 26 Kg Total catch: 608.58 CATCH/HOUR: 1377.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Marengula jagunna	865.00	19180	62.01	
Bagre marinus	244.00	6500	17.72	
Orthopristis ruber	145.00	1400	10.53	406
Micropogonias furnieri	28.00	44	2.09	
Cynoscion jamaicensis	15.00	109	0.22	
Diplodus rhomboidalis	14.00	150	1.02	
Bairdiella sanctaeluciae	10.00	150	0.73	
Sardinella aurita	10.00	300	0.73	
Trichurus lepturus	8.00	500	0.58	
Archosargus rhomboidalis	5.40	18	0.39	
Chirocentron bicakerianus	5.00	1200	0.36	
Oplithonema oclinum	5.00	200	0.36	
Sphyraena guachancho	5.00	4	0.36	
Cynoscion jamaicensis	3.00	6	0.22	
Conodon nobilis	2.84	6	0.21	
Ucotepus vulgareis	2.38	2	0.17	
Trachinotus carolinus	2.24	2	0.16	
Cynoscion albilis	1.56	2	0.11	
Serranus dowgeri	1.20	2	0.09	
Rhizoprionodon porosus	1.06	4	0.08	
Diplodus caudimaculata	0.94	2	0.07	
Mustelus higmani	0.88	2	0.06	
Mugil curema	0.86	2	0.06	
Pellona narrowsi	0.00	50		
Total	1377.16		100.00	

DATE:18/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 139
 start stop duration POSITION:Lat N 1133
 TIME : 06:10 06:40 30 (min) Purpose code: 3 Long W 6341
 LOG :3197.00 3198.60 1.60 Area code : 3
 FDEPTH: 59 58 GearCond.code:
 BDEPTH: 59 58 Validity code:
 Towing dir: 240° Wire out: 250 m Speed: 32 kn*10

Sorted: 15 Kg Total catch: 112.00 CATCH/HOUR: 224.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Saurida sp	129.60	28158	57.86	
Loligo plei	40.80	1978	18.21	417
Loligo pealei	31.20	3240	13.93	418
Pristipomoides macrophthalmus	8.40	1272	3.75	
Priacanthus arenatus	4.00	10	1.79	
Lolliguncula brevis	2.40	648	1.07	
Upeneus parvus	2.40	400	1.07	
Uraeopsis secunda	2.40	2	1.07	
Selene setapinnis	2.00	2	0.89	
Epinephelus sp	0.20	2	0.27	
Pomoxus brasiliensis	0.20	2	0.09	416
Diplectrum sp	0.00	24		
Prionotus sp	0.00	24		
Priacanthus sp	0.00	24		
Trachurus lathami	0.00	24		
Trichurus lepturus	0.00	720		
Loligo plei	0.00	72		
Total	224.00		100.00	

DATE:18/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 139
 start stop duration POSITION:Lat N 1133
 TIME : 08:45 09:15 30 (min) Purpose code: 3 Long W 6352
 LOG :3210.00 3219.50 1.50 Area code : 3
 FDEPTH: 307 302 GearCond.code:
 BDEPTH: 307 302 Validity code:
 Towing dir: 185° Wire out:1050 m Speed: 30 kn*10

Sorted: 23 Kg Total catch: 128.10 CATCH/HOUR: 256.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steinadachnoria argenta	88.00	2772	34.35	
Penaeopsis serrata	50.00	1920	19.52	
Coeloclinchus sp	29.00	1348	11.32	
Peristodion gracile	12.00	624	4.68	
Argentina striata	11.50	90	4.49	
Polymixia lowei	11.00	360	4.29	
Synagrops bellus	10.00	260	3.90	
Noeppinnula orientalis	9.00	190	3.51	
Ariomma melanum	6.00	90	2.34	
Lophius gastrophysus	5.00	4	2.26	419
Metanephrops binghami	5.00	130	2.26	
Parasudis sp	4.00	70	1.56	
Illex illecebrosus	3.00	100	1.17	
Stomopterus sp	2.40	160	0.94	
Peristodion sp	2.40	24	0.94	
Neobythites quilli	2.00	200	0.78	
Penaeopsis sp	1.00	230	0.39	
Lepophidium sp	1.00	20	0.39	
Cyrtocaris roseus	1.00	60	0.39	
Pontinus longipinnis	0.60	8	0.23	
Solonocera sp	0.40	10	0.16	
Squilla sp	0.20	0	0.00	
Illex illecebrosus	0.20	4	0.00	
Poecilopsetta albomarginata	0.00	20		
Small squids undident.	0.00			
Rossia sp	0.00	10		
SCIAENIDAE	0.00	70		
MYCTOPIDAE	0.00	170		
Xenolepidichthys sp	0.00	10		
Beryx decadactylus	0.00	40		
Polymetacoryphaea	0.00	10		
Pleuroncodes sp	0.00	10		
Total	256.30		100.03	

DATE:17/ 2/88 GEAR TYPE: BT No:4 PROJECT STATION: 136
 start stop duration POSITION:Lat N 1100
 TIME : 19:45 20:15 30 (min) Purpose code: 1 Long W 6345
 LOG :3098.30 3100.20 1.90 Area code : 3
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 19 20 Validity code:
 Towing dir: 123° Wire out: 50 m Speed: 35 kn*10

Sorted: 31 Kg Total catch: 97.10 CATCH/HOUR: 194.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon boschmae	80.40	4100	41.40	
Sardinella aurita	79.80	2594	41.09	411
Loligo pealei	15.00	1856	7.72	412
Decapterus punctatus	6.00	126	3.09	
Loligo plei	4.80	126	2.47	
Trichurus lepturus	3.20	2	1.65	
Sphyraena picudilla	1.40	4	0.72	
Elops saurus	1.20	2	0.62	
Pseudupeneus maculatus	0.90	6	0.46	
Priacanthus arenatus	0.90	6	0.46	
Mugil curema	0.60	6	0.31	
Acanthostracion quadricornis	0.00	6		
Total	194.20		99.99	

DATE:18/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 141
 start stop duration POSITION:Lat N 1120
 TIME : 12:20 12:50 30 (min) Purpose code: 3 Long W 6353
 LOG :3242.10 3243.70 1.60 Area code : 3
 FDEPTH: 34 30 GearCond.code:
 BDEPTH: 34 30 Validity code:
 Towing dir: 175° Wire out: 200 m Speed: 34 kn*10

Sorted: 19 Kg Total catch: 19.60 CATCH/HOUR: 39.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	195.50	2172	66.29	420
Trachurus lathami	32.50	176	11.02	421
Priacanthus arenatus	15.50	79	5.26	
Loligo plei	13.00	350	4.41	
Mustelus higmani	6.20	8	2.10	
Serranus dowgeri	6.00	10	2.03	
Epinephelus morio	5.00	6	1.97	
Loligo pealei	5.50	150	1.87	
Small squids undident.	5.00	10	1.70	
Pistularia potimba	2.60	10	0.88	
Caulolatilus guppyi	2.00	10	0.68	
Gymnothorax ocellatus	1.50	6	0.51	
Pagrus parvus	1.40	2	0.47	
Mullus auratus	0.50	6	0.17	
Upeneus parvus	0.50	10	0.17	
Ancylorsetta dilecta	0.50	6	0.17	
Spherooides dorsalis	0.50	6	0.17	
Octopus vulgaris	0.40	2	0.14	
Total	294.90		100.01	

DATE:17/ 2/88 GEAR TYPE: BT No:2 PROJECT STATION: 137
 start stop duration POSITION:Lat N 1059
 TIME : 22:05 22:35 30 (min) Purpose code: 1 Long W 6331
 LOG :3116.00 3117.50 1.50 Area code : 3
 FDEPTH: 15 15 GearCond.code:
 BDEPTH: 38 36 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 28 kn*10

Sorted: 12 Kg Total catch: 964.60 CATCH/HOUR: 1929.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Etrumeus teres	810.00	311850	41.99	413
Sardinella aurita	558.00	98580	20.92	415
Engraulis surystole	486.00	93312	25.19	414
Saurida sp Juveniles	54.00	8460	2.80	
Loligo pealei	18.00	900	0.93	
Trachurus lathami	3.20	12	0.17	
Upeneus parvus	0.00	100		
Scomber japonicus	0.00	720		
Total	1929.20		100.00	

DATE:18/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 141
 start stop duration POSITION:Lat N 1120
 TIME : 12:20 12:50 30 (min) Purpose code: 3 Long W 6353
 LOG :3242.10 3243.70 1.60 Area code : 3
 FDEPTH: 34 30 GearCond.code:
 BDEPTH: 34 30 Validity code:
 Towing dir: 175° Wire out: 200 m Speed: 34 kn*10

Sorted: 19 Kg Total catch: 19.60 CATCH/HOUR: 39.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	17.00	1460	43.37	424
Trachurus lathami	11.20	2650	28.57	423
Synodus foetens	4.20	10	10.71	
Rhizoprionodon porosus	1.20	2	3.06	
Sphyraena guachancho	1.20	6	3.06	
Serranus dowgeri	1.20	2	3.06	
Etrumeus teres	1.00	194	2.55	422
Loligo pealei	0.80	54	2.04	
Prionotus punctatus	0.60	2	1.53	
Gymnothorax ocellatus	0.60	4	1.53	
Pristipomoides macrophthalmus	0.10	2	0.26	
Diplectrum radiale	0.10	4	0.26	
Engraulis surystole	0.00	2		
Saurida sp Juveniles	0.00	22		
Total	39.20		100.00	

PROJECT STATION: 142
 DATE: 18/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6404
 start stop duration
 TIME : 15:10 15:40 30 (min) Purpose code: 3
 LOG : 13266.40 3226.10 1.70 Area code : 3
 FDEPTH: 22 24 GearCond.code:
 DDEPTH: 22 24 Validity code:
 Towing dir: 340° Wire out: 100 m Speed: 33 kn*10
 Sorted: 31 Kg Total catch: 159.00 CATCH/HOUR: 318.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	135.00	2250	42.45	426
Orthopristis ruber	54.50	510	17.14	
Bagre marinus	50.00	450	15.72	425
Loligo plei	27.00	2862	8.49	
Papilius paru	10.00	30	3.14	
Harongula jaguana	10.00	140	3.14	
Trachurus lathami	8.50	50	2.67	
Chloroscobrus chrysurus	6.00	30	1.89	
Eucinostomus gula	5.00	70	1.57	
Trachinotus carolinus	4.50	10	1.42	
Chaetodipterus faber	2.00	10	0.63	
Synodus foetens	1.50	20	0.47	
Pomadourus corvinaeformis	1.00	10	0.31	
Bairdiella sanctaeluciae	1.00	10	0.31	
Diplacetrus formosus	1.00	10	0.31	
Gynaethorax ocellatus	1.00	10	0.31	
Upeneus parvus	0.00	10		
Scombridae juveniles	0.00	10		
Total	318.00		99.97	

PROJECT STATION: 143
 DATE: 18/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1118 Long W 6408
 start stop duration
 TIME : 16:40 17:10 30 (min) Purpose code: 3
 LOG : 13270.10 3279.50 1.40 Area code : 3
 FDEPTH: 55 55 GearCond.code:
 DDEPTH: 55 55 Validity code:
 Towing dir: 280° Wire out: 300 m Speed: 30 kn*10
 Sorted: 39 Kg Total catch: 136.50 CATCH/HOUR: 273.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	153.00	910	56.04	429
Haemulon boschmae	71.00	5020	26.01	
Priacanthus arenatus	19.00	46	6.96	427
Loligo plei	13.10	700	4.80	
Rhomboplites aurorubens	4.30	20	1.58	
Lutjanus purpuraceus	4.20	4	1.54	428
Pristipomoides macrocephalus	2.80	260	1.03	
Caulolatilus intermedius	1.40	4	0.51	
Epinophelus morio	1.20	4	0.44	
Bagre marinus	1.00	10	0.37	
Epigonus sp	0.50	110	0.18	
Saurida sp	0.50	100	0.18	
Upeneus parvus	0.50	30	0.18	
Mycteroperca phanax	0.50	2	0.18	
Pennaeus brasiliensis	0.00	10		
Serranus atrobranchus	0.00	10		
BATRACHIIDAE	0.00	10		
Total	273.00		100.00	

PROJECT STATION: 144
 DATE: 18/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1119 Long W 6410
 start stop duration
 TIME : 17:56 18:26 30 (min) Purpose code: 3
 LOG : 13283.90 3285.60 1.70 Area code : 3
 FDEPTH: 67 68 GearCond.code:
 DDEPTH: 67 68 Validity code:
 Towing dir: 350° Wire out: 350 m Speed: 35 kn*10
 Sorted: 107 Kg Total catch: 107.20 CATCH/HOUR: 214.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	105.60	756	49.25	430
Aetobatus nasrinari	34.00	2	15.86	
Mutuelus higmani	12.40	14	5.78	
Loligo plei	12.00	458	5.60	
Pistularia petimba	11.40	16	5.32	
Priacanthus arenatus	9.60	30	4.48	
Pristipomoides macrocephalus	5.80	120	2.71	431
Loligo plei	4.40	146	2.05	
Sardinella aurita	3.80	64	1.77	
Selar crumenophthalmus	3.20	52	1.49	
Synodus sp	1.80	6	0.84	
Mullus auratus	1.60	10	0.75	
Paralichthys tropicus	1.60	2	0.75	
Upeneus parvus	1.40	38	0.65	
Ctenosciaena gracilicirrus	1.20	12	0.56	
Saurida sp	1.20	4	0.56	
Haemulon boschmae	1.00	76	0.47	
Caulolatilus intermedius	0.60	2	0.28	
Serranus atrobranchus	0.60	36	0.28	
Scorpaena dispar	0.20	2	0.09	
Prionotus punctatus	0.20	6	0.09	
Prionotus stearnsi	0.20	8	0.09	
Scomber japonicus	0.20	2	0.09	
Ancyllopsetta diloceta	0.10	2	0.05	
Haemulon steindachneri	0.10	2	0.05	
Diplacetrus sp	0.10	2	0.05	
Pennaeus notialis	0.10	2	0.05	
Saurida sp	0.00	6		
Total	214.40		100.01	

PROJECT STATION: 145
 DATE: 18/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1130 Long W 6413
 start stop duration
 TIME : 19:59 20:59 60 (min) Purpose code: 3
 LOG : 13299.20 3302.00 2.00 Area code : 3
 FDEPTH: 353 340 GearCond.code:
 DDEPTH: 353 340 Validity code:
 Towing dir: 240° Wire out: 1200 m Speed: 28 kn*10
 Sorted: 24 Kg Total catch: 41.10 CATCH/HOUR: 41.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	11.40	557	27.74	
Polymixia lowei	5.60	126	13.63	
Squatina sp	4.70	1	11.44	
Parasudis sp	4.60	96	11.19	
Panaeopsis serrata	4.20	630	10.22	
Coeleorhynchus sp	2.20	122	5.35	
Saurida normani	1.40	4	3.41	
Mutuelus higmani	1.10	1	2.68	
Neobythites sp.	0.70	58	1.70	
Neopinnula orientalis	0.60	4	1.46	
Solema sp	0.50	1	1.22	
Squalus cubensis	0.50	1	1.22	
Ophidion sp.	0.40	10	0.97	
Illex illecebrosus	0.40	4	0.97	
Peristedion sp	0.30	14	0.73	
Trichurus lepturus	0.30	34	0.73	
Metanephrops binghami	0.25	5	0.61	
Peristedion gracile	0.20	18	0.49	
Etmopterus gracilispinis	0.20	22	0.49	
Pontinus longispinis	0.20	2	0.49	
Benthodesmus tenuis	0.20	18	0.49	
Prionotus punctatus	0.20	4	0.49	
Plesionika sp	0.20	22	0.49	
Torpedo sp	0.20	1	0.49	
Laemonea sp	0.15	1	0.36	
Cyttopsis roseus	0.10	6	0.24	
Rossia sp	0.10	4	0.24	
Squilla sp	0.10	2	0.24	
Plectonotus robustus	0.00	2	0.24	
Zenion sp.	0.00	2		
Symphurus sp	0.00	2		
Symphurus plagiura	0.00	2		
Shrimps, small, non comm.	0.00	26		
SOLENOCEPHALIDAE	0.00	26		
GALAXIIDAE	0.00	2		
Argentina striata	0.00	2		
Xenolepidichthys sp	0.00	6		
Glyphocrangon sp	0.00	4		
Polydora sp.	0.00	22		
MYCTOPHIDAE	0.00	20		
Ornithoteutis antillarum	0.00	24		
Synagrops bellus	0.00	2		
Aristaeomorpha sp	0.00	2		
Total	41.10		100.02	

PROJECT STATION: 146
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 6426
 start stop duration
 TIME : 04:32 04:56 24 (min) Purpose code: 3
 LOG : 13578.25 3273.80 1.20 Area code : 3
 FDEPTH: 298 298 GearCond.code:
 DDEPTH: 298 298 Validity code:
 Towing dir: 240° Wire out: 1100 m Speed: 30 kn*10
 Sorted: 32 Kg Total catch: 97.00 CATCH/HOUR: 242.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	83.25	3538	34.33	
Polymixia lowei	72.75	1333	30.00	
Panaeopsis serrata	23.25	3813	9.59	
Pontinus longispinis	21.00	45	8.66	
Coeleorhynchus sp	9.00	405	3.71	
Etmopterus gracilispinis	8.25	390	3.40	
Rossia sp	3.75	15	1.55	
Decapterus tabl	3.00	8	1.24	
Hymanoponaeus sp	3.00	720	1.24	
Parasudis sp	2.25	180	0.93	
Squatina sp	2.00	3	0.82	
Solenocera sp	1.80	210	0.78	
Aphanopus carbo	1.50	45	0.62	
Peristedion gracile	1.50	53	0.62	
Argentina striata	1.50	150	0.62	
Bromiculus imberbis	0.75	6	0.31	
Peristedion sp	0.75	15	0.31	
Polydora corythaoola	0.75	15	0.31	
Plesionika sp	0.75	128	0.31	
Bembrops anatrostris	0.75	15	0.31	
Neobythites sp.	0.38	45	0.16	
Metanephrops binghami	0.38	8	0.16	
Glyphocrangon sp	0.00	30		
Caridea	0.00	225		
Synagrops bellus	0.00	38		
Ophidion sp	0.00	8		
CONGOMATIDAE	0.00	30		
BOTHIDAE	0.00	45		
MYCTOPHIDAE	0.00	38		
Benthodesmus tenuis	0.00	30		
Scorpaena sp.	0.00	8		
Ornithoteutis antillarum	0.00	23		
Cyttopsis roseus	0.00	23		
Shrimps, small, non comm.	0.00	83		
Xenolepidichthys sp	0.00	15		
Total	242.39		99.90	

PROJECT STATION: 147
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1115 Long W 6426
 start stop duration
 TIME : 06:22 06:52 30 (min) Purpose code: 3
 LOG : 3387.20 3388.00 1.60 Area code : 3
 FDEP/PH: 62 62 GearCond.code: 3
 BDEP/PH: 62 62 Validity code:
 Towing dir: 240° Wire out: 300 m Speed: 29 kn*10
 Sorted: 54 Kg Total catch: 118.60 CATCH/HOUR: 237.20

PROJECT STATION: 150
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6417
 start stop duration
 TIME : 12:14 12:44 30 (min) Purpose code: 3
 LOG : 3432.60 3433.90 1.30 Area code : 3
 FDEP/PH: 23 23 GearCond.code: 3
 BDEP/PH: 23 23 Validity code:
 Towing dir: 110° Wire out: 125 m Speed: 26 kn*10
 Sorted: 23 Kg Total catch: 599.44 CATCH/HOUR: 1198.88

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trachurus lathami	137.20	57.84	435
Pristigaster macrophthalmus	13.20	5.56	436
Rhombolites aurorubens	12.40	5.23	437
Priacanthus arenatus	12.00	5.06	
Loligo pealei	10.80	4.55	433
Upeneus parvus	8.40	3.54	
Caulolatilus cyanops	7.20	3.04	
Loligo plei	6.40	2.70	432
Dactylopterus volitans	4.80	2.02	
Synodus foetens	4.00	1.69	
Selar crumenophthalmus	4.00	1.69	
Scorpaena agassizii	3.60	1.52	
Sardinella aurita	2.40	1.01	
Haemulon boschmae	1.60	0.67	
Haemulon stotlachneri	1.60	0.67	
Prionotus beani	1.20	0.51	
Aluterus schoepfi	1.20	0.51	
Mustelus higmani	1.00	0.42	
Decapterus tahl	0.80	0.34	
Scomber japonicus	0.80	0.34	
Fistularia petimba	0.80	0.34	
Parques sp	0.60	0.25	
Prionotus ophryas	0.40	0.17	
Saurida normani	0.20	0.08	
Myripristis jacobus	0.20	0.08	
Sphoeroides dorsalis	0.20	0.08	
Pomaxus brasiliensis	0.20	0.08	434
Gymnarchus nuchus	0.00	0.00	
Kipomus sp	0.00	0.00	
Narcine brasiliensis	0.00	0.00	
Decapterus punctatus	0.00	0.00	
Total	237.20	99.99	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Dagro marinus	1024.40	13784	85.45
Bairdiella sanctaeluciae	63.96	572	5.33
Prionotus punctatus	27.04	156	2.26
Symphurus plagiosa	20.80	312	1.73
Ctenosciaena gracilicirrhus	20.80	312	1.73
Porichthys sp	11.44	208	0.95
Paralichthys tropicus	8.60	16	0.72
Synodus foetens	7.80	52	0.65
Diapterus rhombus	6.24	52	0.52
Eucinostomus gula	5.20	260	0.43
Trichopsetta sp	2.60	208	0.22
Total	1198.88	99.99	

PROJECT STATION: 151
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1052 Long W 6414
 start stop duration
 TIME : 14:01 14:31 30 (min) Purpose code: 3
 LOG : 3444.10 3445.40 1.30 Area code : 3
 FDEP/PH: 52 63 GearCond.code: 3
 BDEP/PH: 52 63 Validity code:
 Towing dir: 290° Wire out: 250 m Speed: 28 kn*10
 Sorted: 55 Kg Total catch: 128.38 CATCH/HOUR: 256.76

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trachurus lathami	137.40	932	53.51
Loligo plei	63.52	3874	24.74
Scomber japonicus	23.80	198	9.27
Synodus foetens	8.76	20	3.41
Upeneus parvus	7.04	1056	3.05
Lagocephalus laevigatus	7.12	20	2.77
Orthopristis ruber	2.80	12	1.09
Sphyraena picudilla	1.60	4	0.62
Serranus dewagari	1.00	4	0.42
Diplectrum radiale	1.00	8	0.39
Fistularia petimba	0.80	4	0.34
Lutjanus purpurus	0.60	4	0.23
Pomaxus notialis	0.36	8	0.14
Saurida sp juveniles	0.00	32	
Total	256.76	99.98	

PROJECT STATION: 148
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6425
 start stop duration
 TIME : 07:50 08:20 30 (min) Purpose code: 3
 LOG : 3396.90 3398.50 1.60 Area code : 3
 FDEP/PH: 32 27 GearCond.code: 3
 BDEP/PH: 32 27 Validity code:
 Towing dir: 145° Wire out: 200 m Speed: 31 kn*10
 Sorted: 24 Kg Total catch: 165.00 CATCH/HOUR: 330.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo plei	127.20	6244	38.55
Loligo pealei	64.80	4242	19.64
Haemulon stotlachneri	37.20	252	11.27
Haemulon boschmae	30.00	4462	9.09
Priacanthus arenatus	12.80	22	3.88
Trachurus lathami	10.80	1560	3.27
Rhombolites aurorubens	7.80	12	2.36
Haemulon aurolineatum	6.00	48	1.82
Dactylopterus volitans	6.00	24	1.82
Lutjanus purpureus	3.80	10	1.15
Ancylometopon quadricellatum	3.60	12	1.09
Selene setapinnis	3.60	8	0.91
Trachurus lathami	2.60	10	0.79
Rhombolites aurorubens	2.40	008	0.73
Scorpaena agassizii	2.20	6	0.67
Rhinobatos porcellanus	2.20	2	0.67
Alopias maculatus	1.80	12	0.55
Paralichthys tropicus	1.80	2	0.55
Haemulon melanurum	1.80	2	0.55
Upeneus parvus	0.60	36	0.18
Diplectrum formosum	0.60	24	0.18
Priacanthus arenatus	0.60	72	0.18
Aluterus schoepfi	0.40	2	0.12
Citharichthys sp	0.00	12	
Eucinostomus gula	0.00	12	
Decapterus punctatus	0.00	12	
Diplectrum radiale	0.00	12	
Total	330.00	100.02	

PROJECT STATION: 152
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1043 Long W 6403
 start stop duration
 TIME : 17:00 17:30 30 (min) Purpose code: 3
 LOG : 3471.50 3473.10 1.60 Area code : 3
 FDEP/PH: 32 32 GearCond.code: 3
 BDEP/PH: 32 32 Validity code:
 Towing dir: 190° Wire out: 150 m Speed: 32 kn*10
 Sorted: 62 Kg Total catch: 62.05 CATCH/HOUR: 124.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Dagro marinus	43.60	794	35.13
Serranus dewagari	22.00	58	17.73
Synodus foetens	10.80	36	8.70
Loligo pealei	10.00	1768	8.06
Microgobius furnieri	10.00	8	8.06
Ctenosciaena gracilicirrhus	6.20	148	5.00
Loligo plei	4.60	376	3.71
Diplectrum formosum	2.60	40	2.10
Trachurus lathami	2.60	14	2.10
Mustelus higmani	2.40	4	1.93
Diplectrum radiale	1.80	20	1.45
Diapterus olisthostomus	1.60	10	1.29
Paralichthys tropicus	1.40	2	1.13
Pepilius paru	1.00	4	0.81
Archoantropus rhomboidalis	0.90	2	0.73
Pomaxus notialis	0.70	28	0.56
Sardinella aurita	0.40	38	0.32
Porichthys sp	0.40	4	0.32
Eucinostomus sp	0.40	12	0.32
Lagocephalus laevigatus	0.40	10	0.32
Prionotus ophryas	0.20	2	0.16
Trichiurus lepturus	0.10	38	0.08
Pomaxus brasiliensis	0.00	2	
Total	124.10	100.01	

PROJECT STATION: 149
 DATE: 19/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6433
 start stop duration
 TIME : 09:20 09:40 20 (min) Purpose code: 3
 LOG : 3406.70 3407.70 1.00 Area code : 3
 FDEP/PH: 25 30 GearCond.code: 3
 BDEP/PH: 25 30 Validity code:
 Towing dir: 326° Wire out: 150 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 166.30 CATCH/HOUR: 498.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus analis	182.40	84	36.56
Loligo pealei	111.00	22479	22.25
Haemulon boschmae	75.00	8037	15.03
Aluterus monoceros	28.20	18	5.65
Halistates votula	24.00	18	4.81
Loligo plei	21.00	1830	4.21
Pomacanthus paru	20.00	40	4.01
Upeneus parvus	18.00	2370	3.61
Fistularia petimba	8.70	21	1.74
Aluterus schoepfi	5.10	9	1.02
Scorpaena agassizii	3.30	9	0.66
Lagocephalus laevigatus	3.30	6	0.66
Rhinobatos porcellanus	3.30	3	0.66
Dactylopterus volitans	1.80	3	0.36
Sardinella aurita	1.50	450	0.30
Fistularia tabacaria	1.20	3	0.24
Decapterus tahl	0.00	30	
Selar crumenophthalmus	0.00	120	
Total	507.80	101.77	

PROJECT STATION: 153
 DATE: 19/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1045 Long W 6408
 start stop duration
 TIME : 19:55 20:25 30 (min) Purpose code: 1
 LOG : 3497.00 3498.60 1.60 Area code : 3
 FDEP/PH: 0 0 GearCond.code: 3
 BDEP/PH: 33 40 Validity code:
 Towing dir: 140° Wire out: 50 m Speed: 29 kn*10
 Sorted: 5 Kg Total catch: 123.80 CATCH/HOUR: 247.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chirocentron bleekeriianus	102.40	54528	41.36
Sardinella aurita	63.00	4320	25.44
Anchoa lyolepis	25.60	15872	10.34
Etrumeus teres	22.40	9180	9.05
Cetengraulis edentulus	18.00	3600	7.27
Porichthys sp	5.40	54	2.18
Sphyraena quachancho	4.00	20	1.62
Elops saurus	3.20	2	1.29
Pomatomus saltatrix	1.80	36	0.73
Scomberomorus cavalla	1.80	54	0.73
Anchoa sp	0.00	3584	
Engraulis eurystole	0.00	4096	
Opisthonema oglinum	0.00	90	
Total	247.60	100.01	

PROJECT STATION: 154
 DATE: 19/ 2/88 GEAR TYPE: BT No:4 POSITION: Lat N 1039 Long W 6412
 start stop duration Purpose code: 1
 TIME : 22:24 22:54 30 (min) Area code : 3
 LOG : 3516.90 3518.80 1.90 GearCond.code: 3
 FDEPTH: 0 0 Validity code:
 BDEPTH: 19 26
 Towing dir: 200° Wire out: 50 m Speed: 41 kn*10
 Sorted: 14 Kg Total catch: 86.30 CATCH/HOUR: 172.60

PROJECT STATION: 155
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1102 Long W 6455
 start stop duration Purpose code: 3
 TIME : 12:54 13:24 30 (min) Area code : 3
 LOG : 3820.40 3822.00 1.60 GearCond.code: 3
 FDEPTH: 107 101 Validity code:
 BDEPTH: 107 101
 Towing dir: 204° Wire out: 450 m Speed: 30 kn*10
 Sorted: 19 Kg Total catch: 19.63 CATCH/HOUR: 39.26

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	70.00	1032	45.19	445
Haemulon bonchamae	24.00	1380	13.90	
Desmopterus punctatus	22.80	348	13.21	446
Orthopristis ruber	7.20	36	4.17	
Trachurus lathami	7.20	60	4.17	
Rhinobatos percellens	6.00	12	3.48	
Synodus foetens	6.00	12	3.48	
Chirocentron bleekeriannus	4.00	1120	2.32	
Elops saurus	3.00	2	2.20	
Chilomycterus antillarum	2.40	12	1.39	
Serranus dewagerei	2.40	24	1.39	
Hairdiella sanctaeluciae	2.40	24	1.39	
Parichthys sp	1.20	24	0.70	
Sphyræna picudilla	1.20	12	0.70	
Aluterus monoceros	1.20	12	0.70	
Haemulon steindachneri	1.20	12	0.70	
Diplacrum formosum	1.20	12	0.70	
Bohus ocellatus	0.20	2	0.12	
Gymnachirus nudus	0.20	2	0.12	
Total	172.60		100.03	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Seriola dumerilii	13.40	2	34.13	
Pristipomoides macrophthalmus	9.20	40	23.43	
Caulolatilus cynops	7.10	20	18.08	
Mustelus manii	3.90	4	9.93	
Chilomycterus antillarum	2.20	4	5.60	
Loligo plei	1.14	70	2.90	
Hemanthias leptus	1.10	2	2.80	
Osteichthys trachypoma	0.40	2	1.02	
Cookeolus boops	0.30	4	0.76	
Gymnothorax ocellatus	0.24	2	0.61	
Ilex illocebrosus	0.18	14	0.46	
Prionotus punctatus	0.10	2	0.25	
OPHICHTHIDAE	0.00	2		
Total	39.26		99.97	

PROJECT STATION: 155
 DATE: 20/ 2/88 GEAR TYPE: BT No:4 POSITION: Lat N 1034 Long W 6406
 start stop duration Purpose code: 1
 TIME : 04:55 05:25 30 (min) Area code : 3
 LOG : 3579.30 3580.90 1.60 GearCond.code: 3
 FDEPTH: 0 0 Validity code:
 BDEPTH: 57 52
 Towing dir: 77° Wire out: 50 m Speed: 32 kn*10
 Sorted: 14 Kg Total catch: 72.15 CATCH/HOUR: 144.30

PROJECT STATION: 160
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1054 Long W 6500
 start stop duration Purpose code: 3
 TIME : 14:30 15:00 30 (min) Area code : 3
 LOG : 3831.30 3832.90 1.60 GearCond.code: 3
 FDEPTH: 126 117 Validity code:
 BDEPTH: 126 117
 Towing dir: 260° Wire out: 500 m Speed: 32 kn*10
 Sorted: 50 Kg Total catch: 136.46 CATCH/HOUR: 272.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	90.00	13920	62.37	448
Sardinella aurita	54.00	4946	37.42	447
Dactylopterus volitans	0.20	2	0.14	
Scorpaenopsis brasiliensis	0.10	2	0.07	
Upeneus parvus	0.00	40		
Total	144.30		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	193.50	1954	70.90	457
Pristipomoides macrophthalmus	50.50	506	18.50	
Pagrus pagrus	10.80	32	3.96	
Myliobatis freminvillei	9.20	4	3.37	
Scomber japonicus	4.50	40	1.65	
Caulolatilus chrysopterus	1.52	2	0.56	
Fistularia petimba	1.00	6	0.37	
Upeneus parvus	0.74	20	0.27	
Priacanthus crenatus	0.60	6	0.22	
Dactylopterus volitans	0.24	6	0.09	
Loligo pealei	0.14	6	0.05	
Loligo plei	0.12	6	0.04	
Total	272.86		99.98	

PROJECT STATION: 156
 DATE: 20/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1025 Long W 6417
 start stop duration Purpose code: 3
 TIME : 18:10 19:40 90 (min) Area code : 3
 LOG : 3670.40 3671.90 1.50 GearCond.code: 3
 FDEPTH: 42 50 Validity code:
 BDEPTH: 42 50
 Towing dir: 245° Wire out: 200 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 7.40 CATCH/HOUR: 14.80

PROJECT STATION: 161
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6510
 start stop duration Purpose code: 3
 TIME : 15:57 16:27 30 (min) Area code : 3
 LOG : 3841.60 3842.70 1.10 GearCond.code: 3
 FDEPTH: 37 31 Validity code:
 BDEPTH: 37 31
 Towing dir: 305° Wire out: 150 m Speed: 20 kn*10
 Sorted: 213 Kg Total catch: 213.53 CATCH/HOUR: 427.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon bonchamae	8.00	534	59.46	449
Haemulon aurolineatum	2.40	38	16.22	450
Loligo pealei	2.00	214	13.51	451
Loligo plei	1.20	62	8.11	452
Sphyræna picudilla	0.40	2	2.70	
Total	14.80		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Calamus calamus	116.40	264	27.26	458
Bodianus rufus	113.70	228	26.62	
Acanthostracion quadricornis	29.50	14	6.91	
Mycteroperca venenosa	21.90	10	5.13	
Mycteroperca rubra	20.30	12	4.75	459
Mycteroperca interstitialis	17.00	2	3.98	
Pomacanthus paru	13.20	6	3.09	
Lachnolaimus maximus	12.40	12	2.90	
RAJIDAE	11.90	2	2.79	
Upeneus parvus	8.60	174	2.01	
Balistes vetula	7.70	8	1.80	
Buconostomus gula	6.44	86	1.51	
Pintularia tabacaria	5.20	6	1.22	
Priacanthus arenatus	4.50	16	1.05	
Acanthostracion polyzona	4.00	8	0.94	
Pseudupeneus maculatus	3.80	44	0.89	460
ACANTHURIDAE	3.64	16	0.85	
Soplotautichthys sepioides	3.60	42	0.84	
Rhinosomus triquetror	3.54	8	0.83	
Fistularia petimba	3.30	4	0.77	
Haemulon melanurum	2.70	6	0.63	
Rhinosomus bicaudalis	2.60	2	0.61	
Haemulon plumieri	2.20	4	0.52	
Acanthurus chrysurus	2.00	4	0.47	
Ocyurus chrysurus	1.86	2	0.44	
Acanthurus bahianus	1.60	10	0.37	
Epinephelus adscensionis	0.80	2	0.19	
Sparisoma viride	0.80	2	0.19	
Sparisoma chrysopteron	0.40	2	0.09	
Scarus taeniopterus	0.40	2	0.09	
Sparisoma radians	0.20	2	0.05	
Sparisoma viride	0.20	2	0.05	
Sphoeroides sp	0.20	2	0.05	
Aulostomus maculatus	0.20	4	0.05	
Chaetodon ocellatus	0.16	2	0.04	
Trachurus lathami	0.12	6	0.03	
Total	427.06		100.01	

PROJECT STATION: 157
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1110 Long W 6443
 start stop duration Purpose code: 3
 TIME : 06:48 07:18 30 (min) Area code : 3
 LOG : 3777.10 3778.70 1.60 GearCond.code: 3
 FDEPTH: 87 104 Validity code:
 BDEPTH: 87 104
 Towing dir: 240° Wire out: 400 m Speed: 33 kn*10
 Sorted: 20 Kg Total catch: 171.00 CATCH/HOUR: 342.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	183.60	1416	53.60	453
Pristipomoides macrophthalmus	77.40	972	22.63	454
Caulolatilus cynops	17.40	60	5.09	
Trachurus lathami	15.60	108	4.56	
Priacanthus aronatus	13.20	60	3.86	
Aluterus schoepfi	10.20	12	2.98	
Loligo plei	9.00	336	2.63	
Fistularia petimba	8.40	36	2.46	
Loligo pealei	4.80	144	1.40	
Scorpaena dispar	1.80	36	0.53	
Scomber japonicus	0.30	2	0.09	
Desmopterus tabl	0.30	2	0.09	
Bohus sp	0.00	12		
Dactylopterus volitans	0.00	12		
Ariomma bondi	0.00	36		
Total	342.00		100.00	

PROJECT STATION: 162
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106 Long W 6516
 start stop duration Purpose code: 3
 TIME : 17:35 17:50 15 (min) Area code : 3
 LOG : 3851.70 3852.50 0.80 GearCond.code: 3
 FDEPTH: 72 72 Validity code:
 BDEPTH: 72 72
 Towing dir: 270° Wire out: 350 m Speed: 29 kn*10
 Sorted: 3 Kg Total catch: 3.40 CATCH/HOUR: 13.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Hemanthias leptus	62.40	128	43.47	456
Pristipomoides macrophthalmus	50.00	404	34.83	455
Seriola dumerilii	16.00	4	11.15	
Epinephelus morio	10.04	4	6.99	
Antigonia capros	1.72	88	1.20	
Cookeolus boops	0.80	8	0.56	
Aulopus nanus	0.60	8	0.42	
Ilex illocebrosus	0.60	44	0.42	
Dactylopterus volitans	0.40	4	0.28	
Loligo pealei	0.40	20	0.28	
Upeneus parvus	0.40	12	0.28	
Syngnathus bollus	0.20	116	0.14	
Parasudis sp	0.00	24		
Total	143.56		100.02	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Mustelus higmani	8.00	4	58.82	
Acanthostracion polyzona	5.60	4	41.18	
Total	13.60		100.00	

PROJECT STATION: 163
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1102 Long W 6520
 TIME : 18:30 start stop duration Purpose code: 3
 LOG : 3857.30 3059.10 1.00 Area code : 3
 FDEPTH: 15 54 GearCond.code: 3
 BDEPTH: 35 54 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 26 kn*10

Sorted: 464 Kg Total catch: 464.00 CATCH/HOUR: 929.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Calanus calanum	101.00	310	19.47	
Priacanthus aronatus	159.00	290	17.19	461
Pomacanthus paru	111.00	54	11.94	
Pseuduponus maculatus	74.00	740	7.96	
Mycteroperca cidi	59.00	6	6.43	
Epinephelus adscensionis	39.20	50	4.22	462
Lutjanus analis	32.00	4	3.44	465
Hellates vultus	32.00	14	3.44	
Mycteroperca interstitialis	29.20	4	3.14	464
Haemulon plumieri	29.00	50	3.12	463
Acanthostracion polygonus	27.00	30	2.90	
Calanus calanum	26.00	280	2.80	
Mycteroperca venenosa	22.00	14	2.37	
Haemulon sciurus	18.40	32	1.98	
Holocentrus rufus	16.20	40	1.74	
Fistularia tabacaria	13.60	12	1.46	
Aluterus schoepfii	11.60	14	1.25	
Sparisoma chrysotera	10.20	16	1.10	
Haemulon molinarum	9.60	30	1.03	
Acanthostracion quadricornis	7.20	10	0.77	
Lachnolaimus maximus	6.60	4	0.71	
Ocyurus chrysurus	5.00	6	0.54	
Acanthurus chirurgus	3.80	10	0.41	
Diodon hystrix	2.20	4	0.24	
Fistularia petimba	1.60	4	0.17	
Scorpaen plumieri	1.00	2	0.11	
Aluostomus xanthurus	0.40	6	0.04	
Haemulon chrysurus	0.20	2	0.02	
Total	929.60		99.99	

PROJECT STATION: 164
 DATE: 21/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1109 Long W 6528
 TIME : 20:55 start stop duration Purpose code: 3
 LOG : 3874.50 3875.90 1.40 Area code : 3
 FDEPTH: 263 266 GearCond.code: 3
 BDEPTH: 263 266 Validity code:
 Towing dir: 260° Wire out: 1000 m Speed: 26 kn*10

Sorted: 22 Kg Total catch: 51.65 CATCH/HOUR: 103.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sciaenops ocellatus	55.20	200	53.44	
Squatina dumeril	11.90	2	11.52	
Steindachneria argentea	11.60	436	11.23	
Synagrops holius	4.00	52	4.65	
Ceolorhynchus sp	3.20	112	3.10	
Polydora lowei	2.40	156	2.32	
MYCTOPHIDAE	1.00	332	1.74	
SOLENOCEPHALIDAE	1.60	128	1.55	
Illex illecebrosus	1.60	40	1.55	
Squalus cubensis	1.00	4	0.97	
Plesionika sp	1.00	128	0.97	
Synodus intermedius	0.80	4	0.77	
Neopinnula orientalis	0.80	4	0.77	
Pontinus longispinis	0.80	8	0.77	
Shrimps, small, non comm.	0.60	0	0.50	
Bembrops antiostris	0.60	08	0.58	
Parasudis sp	0.40	32	0.39	
Ornithocheilus antillarum	0.40	68	0.39	
Antigonia capros	0.40	4	0.39	
Rossia sp	0.40	8	0.39	
Metanephrops binghami	0.40	4	0.39	
MORIDAE	0.40	12	0.39	
Argentina atrinata	0.40	72	0.39	
Aphanopus carbo	0.40	16	0.39	
Neobythites gillii	0.20	40	0.19	
Cyttopsis roseus	0.20	28	0.19	
Otophidium sp	0.00	8		
Zenion hololepis	0.00	12		
Glyptocheilichthys sp	0.00	16		
BOTIIDAE	0.00	16		
Scomber japonicus	0.00	28		
Etella sp	0.00	20		
Total	103.30		100.01	

PROJECT STATION: 165
 DATE: 22/ 2/88 GEAR TYPE: PT No:2 POSITION: Lat N 1013 Long W 6502
 TIME : 05:40 start stop duration Purpose code: 1
 LOG : 3953.00 3955.50 1.70 Area code : 3
 FDEPTH: 5 5 GearCond.code: 3
 BDEPTH: 30 30 Validity code:
 Towing dir: 285° Wire out: 50 m Speed: 32 kn*10

Sorted: 7 Kg Total catch: 6.97 CATCH/HOUR: 13.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rogge marinus	3.20	2	22.96	
Trachurus lathami	3.00	492	21.52	
Sardinella aurita	3.00	122	21.52	467
Anchoa hepsetus	1.40	168	10.04	466
Loligo pealei	1.20	2	8.61	
Lagocephalus laevigatus	1.00	2	7.17	
Scomber japonicus	0.60	38	4.30	
Loligo ploi	0.20	2	1.43	
Upeneus parvus	0.20	60	1.43	
Saurida sp	0.10	2	0.72	
BREGHACROTIDAE	0.04	0.29		
Fish larvae	0.00			
Anchoa lyolepis	0.00	2		
Prionotus sp	0.00	10		
Chirocentrodon bleekeriannus	0.00	24		
Engraulis eurystole	0.00	26		
Strumemus teres	0.00	26		
Total	13.94		99.99	

PROJECT STATION: 166
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1015 Long W 6502
 TIME : 07:00 start stop duration Purpose code: 3
 LOG : 3959.90 3961.60 1.70 Area code : 3
 FDEPTH: 37 37 GearCond.code: 3
 BDEPTH: 37 37 Validity code:
 Towing dir: 90° Wire out: 200 m Speed: 31 kn*10

Sorted: 14 Kg Total catch: 147.60 CATCH/HOUR: 295.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa hepsetus	102.00	1110	34.55	
Loligo pealei	48.00	5520	16.26	470
Trachurus lathami	42.00	14176	14.23	
Loligo ploi	32.00	3320	10.04	469
Chirocentrodon bleekeriannus	16.00	3000	5.42	
Haemulon boschmae	16.00	1060	5.42	
Pristipomoides macrophthalmus	12.00	4200	4.07	
Scomberomorus cavalla	10.00	100	3.39	
Saurida sp	6.00	1200	2.03	
Priacanthus arenatus	4.00	40	1.36	
Upeneus parvus	2.00	420	0.68	
Bagro marinus	2.00	2	0.68	
Trachurus lathami	1.80	20	0.61	
Pomaxus notialis	0.80	24	0.27	
Priacanthus arenatus	0.40	2	0.14	
Pomaxus subtilis	0.20	4	0.07	
Selene sp	0.00	20		
Diplactrum radiale	0.00	20		
Poecilopsetta albomarginata	0.00	20		
Scomber japonicus	0.00	60		
Sardinella aurita	0.00	60		
Total	295.20		100.02	

PROJECT STATION: 167
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1009 Long W 6449
 TIME : 08:56 start stop duration Purpose code: 3
 LOG : 3974.80 3976.10 1.30 Area code : 3
 FDEPTH: 22 30 GearCond.code: 3
 BDEPTH: 22 30 Validity code:
 Towing dir: 340° Wire out: 100 m Speed: 25 kn*10

Sorted: 18 Kg Total catch: 87.39 CATCH/HOUR: 174.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	63.60	156	36.39	471
Papilius paru	22.00	230	12.59	
Chirocentrodon bleekeriannus	18.00	6436	10.30	
Harengula jaguana	18.00	320	10.30	
Chloroscomber chrysurus	15.50	100	8.87	
Sphyrna guachancho	15.20	40	8.70	
Loligo pealei	4.66	6	2.67	
Pollina harroweri	3.30	110	1.89	
Oligoplites saliens	3.00	0	1.72	
Hemicaranx amblyrhynchius	2.14	16	1.22	
Trichiurus lepturus	1.50	2	0.86	
Trachinotus carolinus	1.20	2	0.69	
Dianterus rhombus	1.02	46	0.58	
Selene sp	1.00	100	0.57	
Trichiurus lepturus	0.76	90	0.43	
Isopisthus parvipinnis	0.72	6	0.41	
Stallifer microps	0.60	6	0.34	
Porichthys sp	0.52	36	0.30	
Sardinella aurita	0.30	6	0.17	
Pomaxus subtilis	0.30	20	0.17	
Citharichthys sp	0.30	6	0.17	
Chaetodontopterus faber	0.30	2	0.17	
Anchoa parva	0.26	66	0.15	
Iyengraulis grossidomus	0.24	6	0.14	
Pomaxus schmitti	0.24	10	0.14	
Cynoscion sp	0.12	6	0.07	
Lagocephalus laevigatus	0.00	16		
Hemicaranx amblyrhynchius	0.00	36		
Engraulis eurystole	0.00	20		
Saurida sp	0.00	50		
Total	174.78		100.01	

PROJECT STATION: 160
 DATE: 23/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1019 Long W 6500
 TIME : 10:58 start stop duration Purpose code: 3
 LOG : 3991.00 3992.50 1.50 Area code : 3
 FDEPTH: 71 65 GearCond.code: 3
 BDEPTH: 71 65 Validity code:
 Towing dir: 238° Wire out: 350 m Speed: 31 kn*10

Sorted: 59 Kg Total catch: 249.50 CATCH/HOUR: 499.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	339.60	2062	68.06	473
Priacanthus aronatus	89.60	336	17.96	474
Loligo pealei	23.60	2462	4.73	472
Scomber japonicus	17.40	88	3.49	475
Balistes caprisicus	12.80	8	2.57	
Papilius paru	5.60	16	1.12	
Sphyrna guachancho	3.20	6	0.64	
Pristipomoides macrophthalmus	3.20	176	0.64	
Fistularia petimba	2.40	16	0.48	
Upeneus parvus	1.60	40	0.32	
Pomaxus notialis	0.00	2		
Prionotus stearnsi	0.00	8		
Total	499.00		100.01	

PROJECT STATION: 169
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1010 Long W 6511
 TIME : 13:00 13:25 25 (min) Purpose code: 3
 LOG : 4008.30 4009.50 1.20 Area code : 3
 PDEPTH: 17 16 GearCond.code:
 BDEPTH: 17 16 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 37 kn*10

Sorted: 12 Kg Total catch: 71.14 CATCH/HOUR: 170.74

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Engraulis eurystole	53.76 19354	31.49	
Sardinella aurita	39.94 5506	23.39	476
Sphyraena guachancho	27.84 96	16.31	
Sphyraena picudilla	26.88 154	15.74	
Myxistichus interstinctus	8.40 2	4.92	
Anchoa mitchilli	3.84 115	2.25	
Chloroscombrus chrysurus	2.88 29	1.69	
Conodon nobilis	2.00 10	1.69	
Dasyatis guttata	0.96 10	0.56	
Eugerres plumieri	0.96 29	0.56	
Lepophidium sp	0.96 10	0.56	
Prionotus punctatus	0.96 19	0.56	
Citharichthys cornutus	0.38 10	0.22	
Penaeus subtilis	0.10 19	0.06	
Hypiticus sp	0.00 38		
Dollmanina sp.	0.00 38		
Prionotus stearnsi	0.00 77		
Citharichthys sp	0.00 5		
Scomber japonicus	0.00 38		
Trinectes inscriptus	0.00 10		
Total	170.74	100.00	

PROJECT STATION: 170
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1019 Long W 6516
 TIME : 14:35 15:05 30 (min) Purpose code: 3
 LOG : 4019.70 4021.20 1.50 Area code : 3
 PDEPTH: 61 65 GearCond.code:
 BDEPTH: 61 65 Validity code:
 Towing dir: 300° Wire out: 300 m Speed: 30 kn*10

Sorted: 31 Kg Total catch: 31.55 CATCH/HOUR: 63.10

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Pracanthus arenatus	18.60 88	29.48	477
Lutjanus analis	12.20 2	19.33	
Loligo plei	11.80 976	18.70	
Trachurus lathami	8.20 144	13.00	
Sphyraena guachancho	4.60 20	7.29	
Pristipomoides macrophthalma	2.80 62	4.44	
Pistularia petimba	2.40 16	3.80	
Lagocephalus laevigatus	1.40 8	2.22	
Eucinostomus gula	0.80 20	1.27	
Upeneus parvus	0.16 4	0.25	
Lutjanus purpurus	0.14 4	0.22	
Total	63.10	100.00	

PROJECT STATION: 171
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1024 Long W 6524
 TIME : 16:39 17:09 30 (min) Purpose code: 3
 LOG : 4037.00 4038.50 1.50 Area code : 3
 PDEPTH: 88 85 GearCond.code:
 BDEPTH: 88 85 Validity code:
 Towing dir: 205° Wire out: 500 m Speed: 30 kn*10

Sorted: 54 Kg Total catch: 54.70 CATCH/HOUR: 109.40

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Selar crumenophthalmus	45.40 608	41.50	478
Lutjanus analis	20.00 4	18.28	
Pristipomoides macrophthalma	12.60 274	11.52	479
Mustelus canis	12.00 6	10.97	
Pistularia petimba	6.80 32	6.22	
Trachurus lathami	5.00 112	5.30	
Loligo plei	3.20 124	2.93	
Pracanthus arenatus	1.60 8	1.46	
Sphyraena picudilla	1.40 6	1.28	
Eucinostomus gula	0.20 10	0.18	
Sardinella aurita	0.20 4	0.18	
Upeneus parvus	0.20 4	0.18	
Prionotus punctatus	0.00 2		
Total	109.40	100.00	

PROJECT STATION: 172
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1019 Long W 6530
 TIME : 18:15 18:45 30 (min) Purpose code: 3
 LOG : 4048.00 4050.20 1.40 Area code : 3
 PDEPTH: 52 55 GearCond.code:
 BDEPTH: 52 55 Validity code:
 Towing dir: 320° Wire out: 250 m Speed: 26 kn*10

Sorted: 68 Kg Total catch: 68.50 CATCH/HOUR: 137.00

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Trichurus lepturus	75.20 116	54.89	480
Loligo plei	19.40 472	14.16	
Pracanthus arenatus	8.40 22	6.13	
Aetobatus nasipari	5.80 2	4.23	
Selar crumenophthalmus	5.80 40	4.23	
Mustelus canis	5.40 2	3.90	
Loligo plei	5.20 388	3.80	
Rhizoprionodon porosus	4.20 2	3.07	
LOLIGINIDAE	1.80 92	1.31	
Sphyraena picudilla	1.60 10	1.17	
Upeneus parvus	1.40 56	1.02	
Trachurus lathami	1.20 14	0.88	
Penaeus notialis	1.00 24	0.73	481
Eucinostomus gula	0.40 8	0.29	
Chloroscombrus chrysurus	0.20 2	0.15	
Prionotus stearnsi	0.00 2		
Total	137.00	100.00	

PROJECT STATION: 173
 DATE: 22/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1021 Long W 6550
 TIME : 21:25 21:55 30 (min) Purpose code: 3
 LOG : 4075.20 4076.80 1.60 Area code : 3
 PDEPTH: 43 45 GearCond.code:
 BDEPTH: 43 45 Validity code:
 Towing dir: Wire out: 200 m Speed: 27 kn*10

Sorted: 11 Kg Total catch: 97.90 CATCH/HOUR: 195.80

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Chaetodipterus faber	27.80 52	14.20	
Prionotus punctatus	24.00 66	12.67	
Lepophidium profundorum	19.20 72	9.81	
Lutjanus analis	11.60 2	5.92	
Pracanthus arenatus	9.20 18	4.70	
Saurida brasiliensis	8.80 608	4.49	
Eucinostomus melanopterus	8.80 240	4.49	
Pistularia petimba	8.00 40	4.09	
Pristipomoides macrophthalma	8.00 880	4.09	
Microgogonias furnieri	7.60 6	3.80	
Trichurus lepturus	7.60 12	3.80	
Mustelus canis	7.20 2	3.68	
Ballistes capricus	6.00 8	3.06	
Chirocentrodon bleakerianus	4.00 2	2.45	
Penaeus notialis	4.20 122	2.15	482
Shrimps, small, non comm.	4.00 2	2.04	
Cynoscion jamaicensis	3.80 22	1.94	
Diplectrum radiale	3.20 96	1.63	
Porichthys sp	3.20 232	1.63	
Anchoa spinifer	2.40 192	1.23	
Upeneus parvus	2.40 200	1.23	
Selene vomer	2.20 2	1.12	
Hildebrandia flava	1.60 64	0.82	
Bagre marinus	1.40 2	0.72	
Ctenosclaea gracilicirrus	1.20 24	0.61	
Aetobatus nasipari	1.00 2	0.51	
Gymnothorax ocellatus	1.00 6	0.51	
Loligo plei	0.80 48	0.41	
Bregmaceros sp.	0.80 1320	0.41	
Pellona harroweri	0.80 40	0.41	
Lutjanus purpurus	0.60 2	0.31	
Loligo plei	0.40 32	0.20	
Citharichthys cornutus	0.40 16	0.20	
Sorax atrobanchus	0.40 64	0.20	
Sphyraena picudilla	0.40 2	0.20	
Penaeus brasiliensis	0.20 14	0.10	483
Trachurus lathami	0.00 32		
Total	195.80	99.99	

PROJECT STATION: 174
 DATE: 23/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1029 Long W 6550
 TIME : 00:00 00:30 30 (min) Purpose code: 3
 LOG : 4094.10 4095.70 1.60 Area code : 3
 PDEPTH: 35 26 GearCond.code:
 BDEPTH: 35 26 Validity code:
 Towing dir: 260° Wire out: 150 m Speed: 32 kn*10

Sorted: 8 Kg Total catch: 72.44 CATCH/HOUR: 144.80

SPECIES	CATCH/HOUR weight	% OF TOT. C	SAMP.NO.
Chirocentrodon bleakerianus	28.40 1254	18.22	
Ophiodon sp.	19.20 1168	13.25	
Microgogonias furnieri	17.60 28	12.15	
Selene setapinnis	10.40 832	7.18	
Prionotus punctatus	9.20 28	6.35	
Loligo plei	8.00 288	5.52	
Trichurus lepturus	7.50 6	5.10	
Anchoa spinifer	7.20 560	4.97	486
Pristipomoides macrophthalma	6.40 3088	4.42	
Penaeus notialis	5.10 196	3.52	484
Xiphopenaeus kroyeri	3.20 2880	2.21	
Eucinostomus melanopterus	3.20 128	2.21	
Eugerres plumieri	2.80 8	1.52	
Porichthys sp	2.80 108	1.24	485
Penaeus subtilis	1.60 96	1.10	
Lepophidium profundorum	1.60 256	1.10	
Pellona harroweri	1.60 112	1.10	
Diplectrum bivittatum	1.60 12	1.10	
Cynoscion jamaicensis	1.50 2	1.04	
Conodon nobilis	1.40 2	0.97	
Ballistes capricus	0.90 2	0.62	
Pracanthus arenatus	0.80 32	0.55	
Chloroscombrus chrysurus	0.80 16	0.55	
Cynoscion jamaicensis	0.80 32	0.55	
Peprilus paru	0.70 2	0.48	
Dasyatis guttata	0.50 2	0.35	
Rhizoprionodon porosus	0.40 4	0.28	
Lutjanus purpurus	0.40 12	0.28	
Upeneus parvus	0.40 2	0.28	
Sphyraena picudilla	0.20 4	0.14	
Penaeus brasiliensis	0.20 8	0.14	
Penaeus schmitti	0.20 8	0.14	
Epinephelus nigritus	0.00 16		
Citharichthys sp	0.00 528		
Prionotus punctatus	0.00 32		
Trachurus lathami	0.00 16		
Selene vomer	0.00 32		
Diplectrum radiale	0.00 16		
Pistularia tubacarina	0.00 16		
Total	144.80	100.01	

PROJECT STATION: 175
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6540
 TIME : 05:34 05:54 20 (min) Purpose code: 3
 LOG : 4147.40 4148.30 0.90 Area code : 3
 FDEPTH: 231 209 GearCond.code: 3
 BDEPTH: 231 209 Validity code:
 Towing dir: 260' Wire out: 900 m Speed: 26 kn*10

Sorted: 24 Kg Total catch: 43.70 CATCH/HOUR: 131.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Stoichichthys argentea	40.00	2331	31.12	
Pristigaster macropthalmus	24.90	306	18.99	487
Neopinnula orientalis	13.20	168	10.07	
Polymixia lovei	13.20	304	10.07	
Trichurus lepturus	4.00	3	3.66	
Squalus cuvieri	3.90	6	2.97	
Shrimps, small, non comm.	3.60		2.75	
Coelocinchus sp	3.60	252	2.75	
Solanocera sp	3.00	165	2.29	488
Sciema sp	3.00	12	2.29	
Prionotus punctatus	2.70	27	2.06	
Citharichthys sp	2.40	132	1.83	
Saurida normani	2.10	6	1.60	
Pontinus longispinis	1.50	27	1.14	
Merluccius albidus	1.50	15	1.14	
Ancylometta dilocata	1.50	12	1.14	
Bombrops sp	1.20	24	0.92	
Synagrops bellus	1.20	156	0.92	
SOLANOCERIDAE	0.90	183	0.69	
Illex coindotti	0.60	24	0.46	
Neolythites gillii	0.60	100	0.46	
Cookeolus boops	0.60	3	0.46	
Kathetostoma cubana	0.15	3	0.11	
SERRANIDAE	0.15	18	0.11	
Loligo pealei	0.00	12		
Plesionika sp	0.00	12		
Ornithoteuthis antillarum	0.00	72		
Antigonia capros	0.00	12		
NETTASTOMATIDAE	0.00	48		
CONGRIDAE	0.00	12		
MYCTOPHIDAE	0.00	48		
Chlorophthalmus sp.	0.00	24		
Lepidopus caudatus	0.00	12		
Lolliguncula sp	0.00	3		
Total	131.10		100.00	

PROJECT STATION: 176
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1104 Long W 6540
 TIME : 07:21 07:51 30 (min) Purpose code: 3
 LOG : 4160.60 4162.50 1.90 Area code : 3
 FDEPTH: 76 67 GearCond.code: 3
 BDEPTH: 76 67 Validity code:
 Towing dir: 180' Wire out: 400 m Speed: 36 kn*10

Sorted: 23 Kg Total catch: 23.70 CATCH/HOUR: 47.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Rhomboplites aurorubens	18.20	36	38.40	489
Loligo plei	6.00	2	14.35	
Balistes votula	5.20	2	16.97	
Calamus hajonado	4.60	2	9.70	
Mustelus canis	4.00	2	8.44	
Ariomma rogulus	3.00	14	8.44	
Lutjanus analis	2.60	2	5.49	
Fistularia petimba	1.00	8	2.11	
Seriola dumerilii	0.40	2	0.84	
Diodon hystrix	0.40	4	0.84	
Scophthalmus aquosus	0.10	2	0.21	
Callionyx himantophorus	0.10	2	0.21	
Trichopsetta sp	0.00	2		
Chaacanopsetta sp	0.00	2		
Prionotus sp	0.00	4		
Notus ocellatus	0.00	2		
Total	47.40		100.00	

PROJECT STATION: 177
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6541
 TIME : 08:45 09:15 30 (min) Purpose code: 3
 LOG : 4168.90 4170.20 1.30 Area code : 3
 FDEPTH: 72 74 GearCond.code: 3
 BDEPTH: 72 74 Validity code:
 Towing dir: 290' Wire out: 300 m Speed: 20 kn*10

Sorted: 66 Kg Total catch: 80.21 CATCH/HOUR: 160.42

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Lutjanus buccanella	102.00	46	63.58	490
Haemulon striatum	31.60	2	19.70	492
Lutjanus analis	19.00	4	11.84	431
Pagrus pagrus	3.20	4	1.99	
Lolliguncula brevis	1.60	1	1.00	
Loligo plei	1.60	36	1.00	
Priacanthus arenatus	0.60	2	0.37	
Fistularia petimba	0.40	6	0.25	
Rhomboplites aurorubens	0.24	18	0.15	
Decapterus tabl	0.10	6	0.06	
Sardinella aurita	0.04	2	0.02	
Upeneus parvus	0.04	2	0.02	
Canthigaster rostrata	0.00	2		
Serranus sp.	0.00	4		
Total	160.42		99.90	

PROJECT STATION: 178
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1104 Long W 6552
 TIME : 10:20 10:50 30 (min) Purpose code: 3
 LOG : 4179.10 4180.60 1.50 Area code : 3
 FDEPTH: 72 88 GearCond.code: 3
 BDEPTH: 72 88 Validity code:
 Towing dir: 240' Wire out: 300 m Speed: 30 kn*10

Sorted: 1 Kg Total catch: 1.05 CATCH/HOUR: 2.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lolliguncula brevis	1.00	516	85.71
Loligo plei	0.30	16	14.29
Rhomboplites aurorubens	0.00	2	
Fistularia tabacaria	0.00	2	
Penaeus brasiliensis	0.00	2	
Acanthostracion quadricornis	0.00	2	
Total	2.10		100.00

PROJECT STATION: 179
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6552
 TIME : 11:50 12:20 30 (min) Purpose code: 3
 LOG : 4188.30 4189.60 1.30 Area code : 3
 FDEPTH: 71 71 GearCond.code: 3
 BDEPTH: 71 71 Validity code:
 Towing dir: 348' Wire out: 300 m Speed: 26 kn*10

Sorted: 8 Kg Total catch: 46.05 CATCH/HOUR: 92.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Loligo plei	64.00	4526	69.49	493
Lutjanus purpureus	12.70	2	13.79	494
Aluterus schoofi	5.30	2	5.75	
Pagrus pagrus	5.20	8	5.65	
Haemulon striatum	3.80	74	4.13	
Caulolatilus cyanops	0.60	2	0.65	
Rhomboplites aurorubens	0.40	4	0.43	495
Decapterus tabl	0.10	6	0.11	
Saurida sp	0.00	2		
Total	92.10		100.00	

PROJECT STATION: 180
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1054 Long W 6553
 TIME : 13:26 13:56 30 (min) Purpose code: 3
 LOG : 4199.40 4200.60 1.20 Area code : 3
 FDEPTH: 75 66 GearCond.code: 3
 BDEPTH: 75 66 Validity code:
 Towing dir: 270' Wire out: 350 m Speed: 24 kn*10

Sorted: 65 Kg Total catch: 64.67 CATCH/HOUR: 129.34

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Haemulon striatum	66.00	1194	51.03	496
Lachnolaimus maximus	32.40	6	25.05	
Lutjanus buccanella	11.40	4	8.01	
Balistes votula	6.00	2	4.64	
Serranus sp	4.80	58	3.71	
Haemulon melanurum	2.20	4	1.70	
Priacanthus arenatus	1.20	12	0.93	
Fistularia petimba	1.20	8	0.93	
Acanthostracion quadricornis	1.10	4	0.85	
Chilomycterus antillarum	0.72	4	0.56	
Pagrus pagrus	0.72	2	0.56	
Ophichthus ophis	0.60	2	0.46	
Aluterus sp	0.60	2	0.46	
Loligo plei	0.20	10	0.15	
Hemiramphus novacula	0.20	2	0.15	
APOGONIDAE	0.00	2		
Rhomboplites aurorubens	0.00	4		
Total	129.34		99.99	

PROJECT STATION: 181
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047 Long W 6604
 TIME : 15:35 16:05 30 (min) Purpose code: 3
 LOG : 4217.80 4219.70 1.90 Area code : 3
 FDEPTH: 66 66 GearCond.code: 3
 BDEPTH: 66 66 Validity code:
 Towing dir: 180' Wire out: 350 m Speed: 35 kn*10

Sorted: 80 Kg Total catch: 80.95 CATCH/HOUR: 161.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Dasyatis americana	100.00	2	61.77	497
Loligo plei	32.20		19.89	
Pomacanthus paru	12.00	4	7.41	
Haemulon striatum	7.20	94	4.45	
Upeneus parvus	3.80	460	2.35	
Acanthostracion quadricornis	3.00	8	1.85	
Caulolatilus cyanops	1.80	2	1.11	
Pagrus pagrus	1.60	2	0.99	
Diploctetrus radiata	0.20	2	0.12	
Ariomma bondi	0.10	36	0.06	
Haemulon boschmae	0.00	2		
Serranus sp	0.00	2		
Decapterus tabl	0.00	2		
Selar crumenophthalmus	0.00	4		
Saurida sp	0.00	4		
Fistularia petimba	0.00	2		
Total	161.90		100.00	

PROJECT STATION: 182
 DATE: 2/2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6608
 TIME : 17:15 17:45 30 (min) Purpose code: 3
 LOG : 4220.50 4230.00 1.50 Area code : 3
 FDEPTH: 54 56 GearCond.code: 3
 BDEPTH: 54 56 Validity code:
 Towing dir: 280' Wire out: 250 m Speed: 27 kn*10

Sorted: 33 Kg Total catch: 1334.35 CATCH/HOUR: 2668.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.	
	weight numbers			
Sardinella aurita	2064.60	31204	77.36	498
Decapterus punctatus	377.40	570	14.14	499
Decapterus tabl	81.40	1702	3.05	
Lutjanus analis	29.80	6	1.12	
Mustelus canis	28.80	8	1.08	
Lachnolaimus maximus	28.00	4	1.05	
Calamus penna	20.40	22	0.76	
Lolliguncula brevis	14.00	2664	0.55	
Loligo pealei	7.40	296	0.20	
Acanthostracion polygona	5.80	2	0.22	
Seriola dumerilii	5.20	14	0.19	
Fistularia tabacaria	2.00	6	0.07	
Pagrus pagrus	2.20	2	0.04	
Priacanthus arenatus	1.20	2	0.04	
Pristigaster macropthalmus	0.70	6	0.03	
Upeneus parvus	0.00	2		
Total	2668.70		99.90	

DATE: 23/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1041 Long W 6617
 TIME : 18:35 19:05 30 (min) Purpose code: 3
 LOG : 4237.40 4238.50 1.30 Area code : 3
 FDEPTH: 94 95 GearCond.code:
 DDEPTH: 94 95 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 20 kn*10

DATE: 24/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6655
 TIME : 20:20 20:50 30 (min) Purpose code: 3
 LOG : 4314.60 4315.80 1.20 Area code : 3
 FDEPTH: 174 164 GearCond.code:
 DDEPTH: 174 164 Validity code:
 Towing dir: 85° Wire out: 700 m Speed: 25 kn*10

Sorted: 55 Kg Total catch: 391.80 CATCH/HOUR: 783.60

Sorted: 22 Kg Total catch: 69.66 CATCH/HOUR: 139.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trachurus lathami	665.00 2752	84.86	501
Upeneus parvus	81.20 3162	10.36	500
Selar crumenophthalmus	7.00 84	0.89	
Loligo pelei	5.60 126	0.71	
Mulloidichthys martinicus	5.60 42	0.71	
Pristipomoides macrophthalmus	5.60 154	0.71	
Aluterus monoceros	4.90 14	0.63	
Scomber japonicus	1.80 8	0.23	
Priacanthus arenatus	1.40 14	0.18	
Sphyrna picudilla	1.40 14	0.18	
Paralichthys tropicus	1.20 2	0.15	
Trichurus lepturus	1.00 2	0.13	
Eucinostomus gula	0.70 28	0.09	
Rhomboplites aurorubens	0.60 36	0.08	
Peneus brasiliensis	0.40 8	0.05	
Saurida sp	0.00 14		
Syacium papillosum	0.00 14		
Total	783.60	99.96	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Prionotus punctatus	48.60	34.88	
Peristedion gracile	24.60	17.66	
Priacanthus arenatus	24.30	17.44	
Saurida sp	15.00	10.77	106
Heterotrachias perlo	4.20	3.01	6
Loligo pealei	3.60	2.58	10
Scomber japonicus	3.60	2.58	360
Synagrops bellus	3.30	2.37	354
Sciæna sp	2.10	1.51	6
Mulloidichthys martinicus	1.50	1.08	12
Shrimps, small, non comm.	1.20	0.86	372
Argentina striata	1.20	0.86	36
Upeneus parvus	0.90	0.65	6
Priacanthus pancerriatus	0.90	0.65	120
Bembrops sp	0.60	0.43	6
Ancylopsetta dilecta	0.60	0.43	24
Antigonia capros	0.60	0.43	6
Illex coindetii	0.60	0.43	6
Neocyttus orientalis	0.60	0.43	12
LOLIGINIDAE	0.60	0.43	24
NETTASTOMATIDAE	0.12	0.09	6
Lolliguncula brevis	0.00		6
Citharichthys cornutus	0.00		24
Serranus atrobianchus	0.00		6
Xalutius sp	0.00		18
Sphaeroidon maculatus	0.00		12
Total	139.32	100.00	

DATE: 23/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1041 Long W 6631
 TIME : 20:41 21:11 30 (min) Purpose code: 3
 LOG : 4254.20 4255.50 1.20 Area code : 3
 FDEPTH: 73 69 GearCond.code:
 DDEPTH: 73 69 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 24 kn*10

Sorted: 35 Kg Total catch: 100.10 CATCH/HOUR: 200.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Upeneus parvus	75.60 2978	37.76	
Pristipomoides macrophthalmus	22.20 1176	11.09	
Eucinostomus gula	19.20 528	9.59	
Trachurus lathami	16.80 116	8.39	
Prionotus punctatus	16.80 74	8.39	
Trichurus lepturus	8.20 16	4.10	
Aluterus monoceros	6.20 4	3.10	
Sardinella aurita	6.00 96	3.00	
Paralichthys tropicus	5.00 6	2.90	
Pistularia petimba	3.60 16	1.80	
APOGONIDAE	3.60 120	1.80	
Saurida sp	3.00 72	1.50	
Mulloidichthys martinicus	2.20 12	1.10	
Haemulon steindachneri	1.80 12	0.90	
Caulolatilus cyanops	1.60 22	0.80	
Lutjanus purpuraceus	1.40 36	0.70	
Citharichthys sp	1.20 72	0.60	
Loligo pealei	1.20 24	0.60	
Ancylopsetta quadricellata	0.90 4	0.45	
Rhomboplites aurorubens	0.80 60	0.40	
Peneus brasiliensis	0.70 12	0.35	502
Synodus sp	0.60 96	0.30	
Prionotus atterrasi	0.60 24	0.30	
Peneus subtilis	0.20 2	0.10	
Dactylopterus volitans	0.00 12		
Rtrumeus torus	0.00 24		
Total	200.20	100.02	

DATE: 24/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1049 Long W 6657
 TIME : 22:35 23:05 30 (min) Purpose code: 3
 LOG : 4328.40 4329.50 1.10 Area code : 3
 FDEPTH: 100 96 GearCond.code:
 DDEPTH: 100 96 Validity code:
 Towing dir: 240° Wire out: 400 m Speed: 21 kn*10

Sorted: 10 Kg Total catch: 9.92 CATCH/HOUR: 19.84

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Nealotus tripes	9.00	244	45.36
Pristipomoides freemani	2.20	78	11.09
Mustelus higmani	2.10	6	10.50
Decapterus punctatus	1.00	8	5.04
Adioryx bullisi	1.00	40	5.04
Dactylopterus volitans	0.80	2	4.03
Synagrops bellus	0.80	198	4.03
Ancylopsetta dilecta	0.40	2	2.02
Priacanthus arenatus	0.40	2	2.02
Ogcocephalus vespertilio	0.30	2	1.51
Ariomma melanum	0.30	12	1.51
Shrimps, small, non comm.	0.20	2	1.01
Parophidion sp	0.20	6	1.01
UNIDENTIFIED FISH	0.20	10	1.01
Scorpaen. brasiliensis	0.20	6	1.01
Serranus phoebe	0.20	10	1.01
Pistularia petimba	0.20	2	1.01
Trachinocephalus myops	0.20	2	1.01
Apogon sp	0.10	10	0.50
Bothus lunatus	0.10	22	0.50
Upeneus parvus	0.02	6	0.10
ANGUILLIDAE	0.00	24	
MORIDAE	0.00	2	
Legoccephalus laevigatus	0.00	4	
MYCTOPHIDAE	0.00	16	
Serranus sp	0.00	6	
Caulolatilus sp	0.00	4	
Callionymus himantophorus	0.00	8	
Chaetodon guyanensis	0.00	4	
Total	19.84	100.00	

DATE: 23/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1051 Long W 6637
 TIME : 22:46 23:46 60 (min) Purpose code: 3
 LOG : 4268.80 4271.50 2.70 Area code : 3
 FDEPTH: 269 279 GearCond.code:
 DDEPTH: 269 279 Validity code:
 Towing dir: 345° Wire out: 900 m Speed: 27 kn*10

Sorted: 39 Kg Total catch: 44.57 CATCH/HOUR: 44.57

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Illex illecebrosus	25.15	435	56.43
Pontinus longispinis	2.80	44	6.28
Peneopsis serrata	2.60	372	5.83
Solenocera sp	2.52	186	5.65
Polymixia lowei	2.52	70	5.65
Prionotogrammus eos	1.68	20	3.77
Squalus cubensis	1.25	4	2.80
Metanephrops binghami	0.95	19	2.13
Peristedion gracile	0.70	36	1.57
Prionotus punctatus	0.60	5	1.35
Argentina striata	0.50	34	1.12
Neocyttus orientalis	0.42	0	0.94
Priacanthus arenatus	0.40	1	0.90
Plesionika sp	0.36	34	0.81
Lepophidium profundorum	0.30	4	0.67
GALATHEIDAE	0.20	24	0.45
Coolerichthys sp	0.20	14	0.45
OPHIDIIDAE	0.20	38	0.45
Ariomma melanum	0.20	6	0.45
Synagrops bellus	0.20	56	0.45
Ancylopsetta sp	0.20	14	0.45
Antigonia capros	0.20	16	0.45
Lepophidium sp	0.10	2	0.22
Ancylopsetta dilecta	0.10	1	0.22
Gymnothorax sp	0.10	1	0.22
Bembrops sp	0.04	2	0.09
Synchiropus agassizii	0.04	0	0.09
Cyttopsis roseus	0.04	4	0.09
Parasudia sp	0.00	4	
Peristedion sp	0.00	2	
Synagrops sp	0.00	4	
Ogcocephalus sp	0.00	12	
Total	44.57	99.98	

DATE: 25/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1051 Long W 6655
 TIME : 00:00 00:30 30 (min) Purpose code: 3
 LOG : 4333.10 4335.10 2.00 Area code : 3
 FDEPTH: 185 192 GearCond.code:
 DDEPTH: 185 192 Validity code:
 Towing dir: 65° Wire out: 700 m Speed: 36 kn*10

Sorted: 32 Kg Total catch: 32.84 CATCH/HOUR: 65.68

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo pealei	28.00	510	42.63
Mustelus canis	8.00	6	13.40
Synagrops bellus	4.80	480	7.31
Squalus cubensis	3.80	16	5.79
Priacanthus arenatus	2.80	10	4.26
Mullus auratus	2.60	18	3.96
Illex coindetii	2.40	40	3.65
Saurida normani	1.80	4	2.74
Bothus lunatus	1.60	72	2.44
Argentina striata	1.60	440	2.44
Scorpaen. brasiliensis	1.00	2	1.52
Dactylopterus volitans	1.00	16	1.22
BARRACOIDIDAE	0.80	16	1.22
Antigonia combatia	0.80	416	1.22
Peristedion gracile	0.80	16	1.22
Acanthostracion polygonus	0.60	2	0.91
Serranus phoebe	0.40	8	0.61
Polymixia lowei	0.40	4	0.61
Neocyttus orientalis	0.40	4	0.61
Pristipomoides freemani	0.20	2	0.30
Ancylopsetta hiincta	0.06	16	0.12
Citharichthys sp	0.00	2	
Ariomma boni	0.00	8	
Adioryx bullisi	0.00	8	
Callionymus himantophorus	0.00	72	
Upeneus parvus	0.00	8	
Hyporhamphus sp	0.00	8	
Total	65.68	100.01	

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 189
 start stop duration POSITION: Lat N 1050
 TIME : 01:35 01:55 20 (min) Purpose code: 3
 LOG : 4434.40 4345.50 1.10 Area code : 3
 FDEPTH: 315 340 GearCond.code:
 DDEPTH: 315 340 Validity code:
 Towing dir: 320 Wire out: 1050 m Speed: 37 kn*10
 Sorted: 6 Kg Total catch: 31.54 CATCH/HOUR: 94.62

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 189
 start stop duration POSITION: Lat N 1045
 TIME : 10:40 11:00 20 (min) Purpose code: 3
 LOG : 4403.30 4404.30 1.00 Area code : 3
 FDEPTH: 305 336 GearCond.code:
 DDEPTH: 300 336 Validity code:
 Towing dir: 270 Wire out: 1050 m Speed: 27 kn*10
 Sorted: 23 Kg Total catch: 221.75 CATCH/HOUR: 665.25

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Steindachneria argenta	64.80	513	68.48
Priacanthus arenatus	8.70	3	9.19
Ariamantha foliacea	7.20	600	7.61
Epigonus macrops	2.40	24	2.54
Polymixia lowei	2.40	48	2.54
Illex coindetti	1.80	24	1.90
Cyttopsis roseus	1.80	36	1.90
Loligo pealei	1.20	156	1.27
Argentina striata	1.20	84	1.27
Hemanthias sp	1.20	12	1.27
Squalus cubensis	0.90	6	0.95
Neolotus tripes	0.36	12	0.38
Scorpaena brasiliensis	0.30	3	0.32
Plectropops sp	0.30	3	0.32
Peristedion gracile	0.06	3	0.06
Nematopalaemon schmitti	0.00	48	
Heterocarpus sp	0.00	48	
CHLOROPHTHALMIDAE	0.00	24	
Antigonia combata	0.00	48	
Total	94.62	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Polymixia lowei	513.00	504	77.11
Chlorophthalmus sp.	64.80	1887	9.74
Ariomantha bondi	58.05	522	8.73
Zenopsis ocellata	21.75	12	3.27
Sciaena bathytaton	2.70	27	0.41
Coslorinichus sp	2.70	162	0.41
Epigonus sp	1.35	135	0.20
Squalus cubensis	0.90	3	0.14
Total	665.25	100.01	

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 190
 start stop duration POSITION: Lat N 1054
 TIME : 05:00 05:10 30 (min) Purpose code: 3
 LOG : 4367.80 4368.90 1.10 Area code : 3
 FDEPTH: 272 261 GearCond.code:
 DDEPTH: 272 261 Validity code:
 Towing dir: 240 Wire out: 950 m Speed: 22 kn*10
 Sorted: 5 Kg Total catch: 5.40 CATCH/HOUR: 10.80

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 194
 start stop duration POSITION: Lat N 1037
 TIME : 12:45 13:10 25 (min) Purpose code: 3
 LOG : 4410.30 4419.10 8.80 Area code : 3
 FDEPTH: 144 190 GearCond.code:
 DDEPTH: 144 190 Validity code:
 Towing dir: 50 Wire out: 500 m Speed: 22 kn*10
 Sorted: 76 Kg Total catch: 76.00 CATCH/HOUR: 182.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Illex coindetti	6.10	126	56.48
SOLENOCEPHALIDAE	1.60	148	14.81
Pronotus aeneus eos	0.50	6	4.63
Squalus cubensis	0.40	2	3.70
Coslorinichus sp	0.40	8	3.70
Otophidium sp	0.40	4	3.70
Metanephrops binghami	0.40	4	3.70
Solenocera sp	0.30	18	2.78
Contusus longispinus	0.20	2	1.85
Polymixia lowei	0.14	2	1.30
Peristedion gracile	0.10	4	0.93
Lepidopus caudatus	0.10	4	0.93
Synagrops bellus	0.10	40	0.93
NETTASTOMATIDAE	0.06	4	0.56
Loligo pealei	0.00	2	
Ogcocephalus nasutus	0.00	2	
Argentina striata	0.00	2	
Pocillopsetta sp	0.00	2	
Total	10.80	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichurus lepturus	162.24	146	88.95
Pistularia petimba	14.80	31	8.16
Pristipomoides macrophthalms	3.84	29	2.11
Loligo pealei	0.84	17	0.46
Scorida normani	0.60	2	0.33
Total	182.40	100.01	

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 191
 start stop duration POSITION: Lat N 1047
 TIME : 06:45 07:15 30 (min) Purpose code: 3
 LOG : 4377.50 4378.70 1.20 Area code : 3
 FDEPTH: 264 262 GearCond.code:
 DDEPTH: 264 262 Validity code:
 Towing dir: 260 Wire out: 950 m Speed: 23 kn*10
 Sorted: 24 Kg Total catch: 24.65 CATCH/HOUR: 49.30

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 195
 start stop duration POSITION: Lat N 1039
 TIME : 15:00 15:30 30 (min) Purpose code: 3
 LOG : 4434.80 4436.10 1.30 Area code : 3
 FDEPTH: 63 64 GearCond.code:
 DDEPTH: 63 64 Validity code:
 Towing dir: 82 Wire out: 300 m Speed: 25 kn*10
 Sorted: 25 Kg Total catch: 209.30 CATCH/HOUR: 418.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Illex coindetti	19.00	38	38.54
Antigonia capros	11.20	6	22.72
Trichurus lepturus	5.60	6	11.36
Synagrops bellus	4.00	8	8.11
Squalus cubensis	2.20	8	4.46
Ariomantha bondi	1.80	24	3.65
Sciaena bathytaton	1.20	4	2.43
Pronotus punctatus	0.80	8	1.62
Neopinnula orientalis	0.70	14	1.42
Hemibrops anafirostris	0.50	2	1.01
Polymixia lowei	0.50	18	1.01
Pristipomoides fremontii	0.40	2	0.81
Kathetostoma albiguttata	0.20	2	0.41
Loligo pealei	0.20	6	0.41
Loligo sp	0.20	16	0.41
Lepidopus caudatus	0.20	8	0.41
Peristedion equadorensis	0.20	4	0.41
Solenocera sp	0.20	16	0.41
Coslorinichus sp	0.10	8	0.20
Peristedion gracile	0.10	6	0.20
Argentina striata	0.00	4	
Cyttopsis roseus	0.00	4	
NETTASTOMATIDAE	0.00	2	
Steindachneria argenta	0.00	8	
Plesionika sp	0.00	2	
GALATHEIDAE	0.00	2	
Parasudis trunculentus	0.00	14	
Pronotus aeneus eos	0.00	2	
Ophichthus spinicauda	0.00	4	
Ogcocephalus nasutus	0.00	4	
Illex coindetti	0.00	4	
Total	49.30	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Haemulon aurolineatum	155.00	504	37.03
Priacanthus arenatus	46.00	98	10.99
Lutjanus synagris	45.00	42	10.75
Priacanthus arenatus	41.00	100	9.79
Lutjanus purpurus	18.40	36	4.40
Calamus calamus	18.00	4	4.30
Lutjanus analis	17.60	2	4.26
Lutjanus purpurus	16.00	430	3.82
Trachurus lathami	16.00	70	3.82
Loligo plei	9.00	300	2.15
Aluterus monoceros	8.20	6	1.96
Ocyurus chrysurus	6.80	2	1.62
Loligo pealei	6.00	180	1.43
Lutjanus boccanella	5.00	70	1.19
Pistularia petimba	3.50	10	0.84
Scorpaenopsis	1.80	10	0.43
Lutjanus vivamus	1.60	32	0.38
Haemulon boschmae	1.00	210	0.24
Eucinostomus melanopterus	1.00	20	0.24
Decapterus punctatus	1.00	40	0.24
Haemulon striatum	0.50	40	0.12
Upeneus parvus	0.20	30	0.05
Eugerres sp	0.10	20	0.02
Total	418.70	100.01	

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 192
 start stop duration POSITION: Lat N 1045
 TIME : 08:40 09:10 30 (min) Purpose code: 3
 LOG : 4389.40 4391.10 1.70 Area code : 3
 FDEPTH: 240 238 GearCond.code:
 DDEPTH: 240 238 Validity code:
 Towing dir: 260 Wire out: 900 m Speed: 34 kn*10
 Sorted: 32 Kg Total catch: 85.73 CATCH/HOUR: 171.46

DATE: 25/ 2/88 GEAR TYPE: BT No:1 PROJECT STATION: 196
 start stop duration POSITION: Lat N 1039
 TIME : 16:20 16:50 30 (min) Purpose code: 3
 LOG : 4442.30 4443.70 1.40 Area code : 3
 FDEPTH: 48 49 GearCond.code:
 DDEPTH: 48 49 Validity code:
 Towing dir: 78 Wire out: 150 m Speed: 26 kn*10
 Sorted: 44 Kg Total catch: 44.80 CATCH/HOUR: 89.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Illex coindetti	112.00	2620	65.79
Antigonia combata	17.20	448	10.03
Cookeolus boops	12.00	8	7.00
Torpedo nobiliana	9.60	2	5.60
Loligo pealei	4.00	120	2.00
Trichurus lepturus	4.10	4	2.39
Antigonia capros	3.60	32	2.10
Neopinnula orientalis	3.36	56	1.96
Hemanthias leptus	2.90	4	1.69
Squalus cubensis	0.90	2	0.52
Pronotus aeneus eos	0.20	2	0.12
Loligo sp	0.00	32	
Total	171.46	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomphites aurorubens	17.40	628	19.42
Selar crumenophthalmus	9.80	58	10.94
Loligo plei	8.80	560	9.82
Lutjanus purpurus	6.00	60	6.70
Sphyraena plicidilla	5.20	22	5.00
Priacanthus arenatus	4.80	10	5.36
Haemulon steindachneri	4.00	24	4.46
Pistularia petimba	3.90	32	4.35
Lutjanus synagris	3.60	6	4.02
Trichurus lepturus	3.40	2	3.79
Eucinostomus sp	3.40	98	3.79
Selene setchinnis	3.20	8	3.57
Aluterus monoceros	3.20	4	3.57
Calamus calamus	3.20	4	3.57
Haemulon boschmae	2.60	208	2.90
Upeneus parvus	2.00	366	2.23
Balistes capricornis	1.80	2	2.01
Chloroscombrus chrysurus	1.20	8	1.34
Haemulon aurolineatum	0.30	14	0.33
Lutjanus vivamus	0.20	16	0.22
Ariomantha bondi	0.20	6	0.22
Pristipomoides macrophthalms	0.20	16	0.22
Decapterus punctatus	0.00	4	
Priacanthus cruentatus	0.00	4	
Decapterus tabl	0.00	2	
Total	89.60	99.97	

PROJECT STATION: 197
 DATE: 25/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6632
 TIME : 17:45 start stop duration 30 (min) Purpose code: 3
 LOG : 4450.69 4452.80 2.20 Area code : 3
 FDEPTH: 65 77 GearCond.code:
 BDEPTH: 65 77 Validity code:
 Towing dir: 00° Wire out: 250 m Speed: 42 kn*10
 Sorted: 52 Kg Total catch: 236.22 CATCH/HOUR: 476.44

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichurus lepturus	234.00	49.11	512
Trachurus lathami	130.50	27.39	513
Sphyræna picudilla	37.34	7.84	514
Priscanthus arenatus	23.40	4.91	
Selar crumenophthalmus	13.50	2.83	
Aluterus monoceros	12.60	2.64	
Seriola dumerilii	7.20	1.51	
Paralichthys tropicus	4.50	0.94	
Urapia secunda	3.60	0.76	
Loligo plei	2.70	0.57	
Alcockia ciliaris	1.44	0.30	
Eucinostomus sp	0.90	0.19	
Rhomboplites aurorubens	0.90	0.19	
Pristipomoides macrophthalmus	0.90	0.19	
Lutjanus purpuraceus	0.90	0.19	
Lutjanus vivanus	0.90	0.19	
Upeneus parvus	0.90	0.19	
Loligo sp	0.26	0.05	
Total	476.44	99.99	

PROJECT STATION: 198
 DATE: 25/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1043 Long W 6622
 TIME : 19:40 start stop duration 30 (min) Purpose code: 3
 LOG : 4464.76 4466.40 1.70 Area code : 3
 FDEPTH: 144 146 GearCond.code:
 BDEPTH: 144 146 Validity code:
 Towing dir: 67° Wire out: 600 m Speed: 32 kn*10
 Sorted: 28 Kg Total catch: 85.80 CATCH/HOUR: 171.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	73.50	42.83	515
Pristipomoides macrophthalmus	69.60	40.56	516
Prionotus punctatus	9.60	5.53	
Brotula barbata	4.00	2.33	
Scorpaena brasiliensis	3.60	2.10	
Saurida sp	3.00	1.75	
Paroquet sp	2.40	1.40	
Fistularia potimba	1.00	0.57	
Pagrus pagrus	1.20	0.70	
Mulloidichthys martinicus	0.90	0.52	
Selar crumenophthalmus	0.90	0.52	
Citharichthys sp	0.60	0.35	
Peristedion gracile	0.30	0.17	
Penaeus notialis	0.20	0.12	
Otophidium sp	0.00	0.00	
Hoplunnis sp	0.00	0.00	
Sphoeroides maculatus	0.00	0.00	
Semirostris sp	0.00	0.00	
Citharichthys cornutus	0.00	0.00	
Squilla sp	0.00	0.00	
Serranus atrobranchius	0.00	0.00	
Loligo sp	0.00	0.00	
Prionotus stearnsi	0.00	0.00	
SOLANOCENTRIDAE	0.00	0.00	
Selar crumenophthalmus	0.00	0.00	
Scomber japonicus	0.00	0.00	
Engraulis curystole	0.00	0.00	
Solenocera sp	0.00	0.00	
Porichthys sp	0.00	0.00	
Sphoeroides nebulosus	0.00	0.00	
Total	171.60	99.99	

PROJECT STATION: 199
 DATE: 25/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6613
 TIME : 23:20 start stop duration 30 (min) Purpose code: 3
 LOG : 4495.40 4496.90 1.50 Area code : 3
 FDEPTH: 215 240 GearCond.code:
 BDEPTH: 215 240 Validity code:
 Towing dir: 265° Wire out: 800 m Speed: 25 kn*10
 Sorted: 25 Kg Total catch: 76.34 CATCH/HOUR: 152.68

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Antigonia capros	49.00	32.62	
Epigonus macrops	40.00	26.72	
Polymixia lowei	31.20	20.43	
Stelindachneria argenta	19.00	12.97	
Pristipomoides macrophthalmus	4.00	3.14	
Cookeolus hoops	2.20	1.44	
Lophius gastrophysus	0.90	0.59	
Kathetostoma albiguttata	0.90	0.59	
SOLANOCENTRIDAE	0.00	0.00	
Loligo sp	0.60	0.39	
Illex illecebrosus	0.60	0.39	
Prionotus punctatus	0.30	0.20	
Argentina striata	0.18	0.12	
Synagrops bellus	0.00	0.00	
MYCOPHIDIAE	0.00	0.00	
Hoplunnis sp	0.00	0.00	
Parasudis sp	0.00	0.00	
Nealotus tripes	0.00	0.00	
Plesionika sp	0.00	0.00	
Solenocera sp	0.00	0.00	
Loligo plei	0.00	0.00	
Total	152.68	99.99	

PROJECT STATION: 200
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1052 Long W 6631
 TIME : 01:45 start stop duration 45 (min) Purpose code: 3
 LOG : 4513.90 4515.90 2.00 Area code : 3
 FDEPTH: 244 272 GearCond.code:
 BDEPTH: 244 272 Validity code:
 Towing dir: 253° Wire out: 850 m Speed: 26 kn*10
 Sorted: 20 Kg Total catch: 20.57 CATCH/HOUR: 27.43

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Illex illecebrosus	8.80	32.08	
Shrimps, small, non comm.	3.93	14.33	
Pristipomoides macrophthalmus	2.80	10.21	
Synagrops bellus	2.13	7.77	
Pontinus longispinis	1.60	5.83	
Coelorinchus caribbaeus	1.33	4.85	
Polymixia lowei	0.93	3.39	
Prionotus punctatus	0.87	3.17	
Loligo sp	0.67	2.44	
Peristedion gracile	0.67	2.44	
Neopinnula orientalis	0.67	2.44	
Trachurus lathami	0.60	2.19	
Ophidion sp.	0.53	1.93	
Argentina striata	0.53	1.93	
Metanephrops binghami	0.40	1.46	
Antigonia combata	0.27	0.98	
Pikea mexicana	0.23	0.73	
Hemanthias leptus	0.13	0.47	
Hoplunnis sp	0.13	0.47	
Stelindachneria argenta	0.13	0.47	
Peristedion ecuadorensis	0.07	0.26	
Noobythites gillii	0.03	0.11	
MURÆNIDAE	0.00	0.00	
Bembranchius anastrostris	0.00	0.00	
Synchiropon agassizii	0.00	0.00	
Trichopsetta ventralis	0.00	0.00	
Cyttopsalis roseus	0.00	0.00	
Ogcocephalus notatus	0.00	0.00	
Total	27.43	99.95	

PROJECT STATION: 201
 DATE: 26/ 2/88 GEAR TYPE: PT No:2 POSITION: Lat N 1049 Long W 6643
 TIME : 04:30 start stop duration 30 (min) Purpose code: 1
 LOG : 4528.70 4530.90 2.20 Area code : 3
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 255 268 Validity code:
 Towing dir: 264° Wire out: 50 m Speed: 36 kn*10
 Sorted: 7 Kg Total catch: 145.00 CATCH/HOUR: 290.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Scomber japonicus	284.00	97.93	
Euthynnus alletteratus	4.00	1.38	
Decapterus tabl	2.00	0.69	
Total	290.00	100.00	

PROJECT STATION: 202
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1032 Long W 6747
 TIME : 13:10 start stop duration 20 (min) Purpose code: 3
 LOG : 4611.00 4611.90 0.90 Area code : 3
 FDEPTH: 180 188 GearCond.code:
 BDEPTH: 180 188 Validity code:
 Towing dir: 294° Wire out: 700 m Speed: 32 kn*10
 Sorted: 55 Kg Total catch: 55.85 CATCH/HOUR: 167.55

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichurus lepturus	149.40	89.17	
Hemanthias leptus	12.90	7.70	
Epinephelus niveatus	3.00	1.79	
Mustelus canis	1.50	0.90	
Pontinus longispinis	0.75	0.45	
Total	167.55	100.01	

PROJECT STATION: 203
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1034 Long W 6758
 TIME : 15:20 start stop duration 30 (min) Purpose code: 3
 LOG : 4627.10 4628.60 1.50 Area code : 3
 FDEPTH: 68 70 GearCond.code:
 BDEPTH: 68 70 Validity code:
 Towing dir: 345° Wire out: 250 m Speed: 30 kn*10
 Sorted: 20 Kg Total catch: 123.80 CATCH/HOUR: 247.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Loligo plei	57.00	23.02	
Anchoviella sp	47.40	19.14	518
Sardinella aurita	39.00	15.75	517
Chloroscombrus chrysurus	24.60	9.94	
Selena vomer	18.00	7.27	
Selena setapinnis	12.00	4.85	
Lutjanus synagris	11.20	4.52	519
Rhizoprionodon lalandii	9.40	3.80	
Trichurus lepturus	7.80	3.15	
Calamus pennatula	6.20	2.50	
Selar crumenophthalmus	5.40	2.18	
Sphyræna guanchancho	4.20	1.70	
Priscanthus arenatus	3.00	1.21	
Aluterus monoceros	1.20	0.48	
Sphyræna picudilla	0.80	0.32	
Trachurus lathami	0.40	0.16	
Arionna bondi	0.00	0.00	
Eucinostomus sp	0.00	0.00	
Total	247.60	99.99	

PROJECT STATION: 204
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1040 Long W 6800
 TIME : 17:40 18:10 30 (min) Purpose code: 3
 LOG : 4645.80 4647.20 1.40 Area code : 3
 FDEPTH: 56 59 GearCond.code: 3
 DDEPTH: 56 59 Validity code:
 Towing dir: 255 Wire out: 250 m Speed: 28 kn*10
 Sorted: 11 Kg Total catch: 74.60 CATCH/HOUR: 149.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoviella sp	52.80	6776	35.39	523
Loligo plei	27.20	2312	18.23	524
Sphyrana quachancho	21.40	42	14.34	522
Scomberomorus cavalla	12.50	4	8.38	520
Sphyrana picudilla	12.40	70	8.31	521
Chloroscombrus chrysurus	4.80	160	3.22	
Selene vomer	4.30	4	2.88	
Trachurus lepturus	2.60	4	1.74	
Engraulis aurystole	2.40	328	1.61	
Sardinella aurita	2.40	192	1.61	
Lutjanus synagris	1.60	64	1.07	
Selar crumenophthalmus	1.50	2	1.01	
Priacanthus arenatus	1.20	10	0.80	
Scomber japonicus	0.80	80	0.54	
Ariomma bondi	0.80	112	0.54	
Rhomboplites aurorubens	0.50	4	0.34	
Loligo pealei	0.00	16		
Total	149.20		100.01	

PROJECT STATION: 205
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1037 Long W 6811
 TIME : 19:15 19:45 30 (min) Purpose code: 1
 LOG : 4655.80 4657.60 1.80 Area code : 3
 FDEPTH: 39 31 GearCond.code: 3
 DDEPTH: 39 31 Validity code:
 Towing dir: 255 Wire out: 200 m Speed: 33 kn*10
 Sorted: 14 Kg Total catch: 129.90 CATCH/HOUR: 259.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene setapinnis	45.00	60	17.32	
Sphyrana quachancho	36.30	122	13.97	
Eucinostomus sp	31.50	1050	12.12	
Rugerros plumieri	29.00	208	11.16	
Lutjanus synagris	26.80	60	10.32	525
Chloroscombrus chrysurus	22.20	1220	8.55	
Anchoviella sp	16.50	2204	6.35	
Albula vulpes	13.80	42	5.31	
Priacanthus arenatus	4.40	10	1.69	
Prionotus punctatus	3.60	6	1.39	
Synodus foetens	3.60	12	1.39	
Selar crumenophthalmus	3.60	18	1.39	
Caranx hippos	3.60	4	1.39	
Lutjanus analis	3.20	2	1.23	
Trachinotus carolinus	2.80	4	1.08	
Lutjanus griseus	2.50	4	0.96	
Caranx crysos	2.40	2	0.92	
Scomberomorus cavalla	1.90	4	0.73	
Saurida sp	1.50	840	3.58	
Upeneus parvus	1.50	270	0.58	
Conodon nobilis	1.20	6	0.46	
Synodus sp	0.74	344	0.28	
Rhomboplites aurorubens	0.70	2	0.27	
Hemiramphus balao	0.60	6	0.23	
Penaeus schmitti	0.50	48	0.19	
Lutjanus purpureus	0.30	4	0.12	
Pristipomoides macrophthalmus	0.00	16		
Engraulis aurystole	0.00	30		
Loligo plei	0.00	90		
Diplectrum sp	0.00	30		
Total	259.74		99.98	

PROJECT STATION: 206
 DATE: 26/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1037 Long W 6811
 TIME : 20:45 21:15 30 (min) Purpose code: 1
 LOG : 4664.10 4666.10 2.00 Area code : 3
 FDEPTH: 0 0 GearCond.code: 3
 DDEPTH: 29 19 Validity code:
 Towing dir: 225 Wire out: 50 m Speed: 34 kn*10
 Sorted: 18 Kg Total catch: 146.40 CATCH/HOUR: 292.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
ENGRAULIDAE	131.20	83094	44.81	
Opisthonema oglinum	99.60	1826	34.02	526
Chirocentrodon bleekeriensis	19.20		6.56	
Anchoviella sp	12.80	1600	4.37	
Scomberomorus cavalla	9.40	6	3.21	
Chloroscombrus chrysurus	6.80	88	2.32	
Sphyrana quachancho	4.80	48	1.64	
Sardinella aurita	3.20		1.09	
Saurida sp	1.60	416	0.55	
Selar crumenophthalmus	1.60	16	0.55	
Lolliguncula brevis	0.64	544	0.22	
Sphyrana quachancho	0.64	64	0.22	
Harengula jaguana	0.64	160	0.22	
Oligoplites saurus	0.60	8	0.20	
Etrumeus teres	0.00	128		
Hemiramphus balao	0.00	8		
Total	292.72		99.98	

PROJECT STATION: 207
 DATE: 26/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1045 Long W 6805
 TIME : 22:50 23:20 30 (min) Purpose code: 1
 LOG : 4678.00 4680.40 1.60 Area code : 3
 FDEPTH: 59 62 GearCond.code: 3
 DDEPTH: 59 62 Validity code:
 Towing dir: 42 Wire out: 250 m Speed: 31 kn*10
 Sorted: 7 Kg Total catch: 63.60 CATCH/HOUR: 127.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus sp	25.20	660	19.81	
Rhomboplites aurorubens	18.00	420	14.15	
Upeneus parvus	15.60	1872	12.26	
SYNODONTIDAE	13.20	3120	10.38	
Pristipomoides macrophthalmus	10.80	1632	8.49	
Priacanthus arenatus	9.00	62	7.08	
Calamus pennatula	4.80	624	3.77	
Haemulon boschmae	4.80	12	3.14	
Lutjanus analis	3.40	4	2.67	
Lutjanus griseus	3.00	2	2.36	
Lagocephalus laevigatus	2.00	60	1.57	527
Penaeus notialis	1.80	192	1.42	
Chloroscombrus chrysurus	1.60	8	1.26	
Prionotus punctatus	1.20	84	0.94	
Prionotus steacnsi	1.20	12	0.94	
Saurida sp	0.80	14	0.63	
Lutjanus purpureus	0.80	2	0.63	
Caulolatilus guppyi	0.60	384	0.47	
Bregmaceros sp.	0.60	84	0.47	
APOGONIDAE	0.60	168	0.47	
Trachurus lathami	0.60	24	0.47	
Diplectrum radiale	0.40	2	0.31	
Chloroscombrus chrysurus	0.40	2	0.31	
Selar crumenophthalmus	0.40	12	0.31	
Hoplunnis sp	0.00	36		
Priacanthus sp	0.00	24		
Decapterus punctatus	0.00	12		
MYCOPHIDAE	0.00	12		
Ariomma bondi	0.00	12		
Scomber japonicus	0.00	12		
Prionotus sp	0.00	8		
Total	127.20		99.97	

PROJECT STATION: 208
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1100 Long W 6811
 TIME : 03:00 03:30 30 (min) Purpose code: 3
 LOG : 4715.20 4716.30 1.10 Area code : 3
 FDEPTH: 65 63 GearCond.code: 3
 DDEPTH: 65 63 Validity code:
 Towing dir: 330 Wire out: 300 m Speed: 24 kn*10
 Sorted: 10 Kg Total catch: 57.52 CATCH/HOUR: 115.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Aposos sp	24.00	12560	20.86	
Eucinostomus sp	24.00	134	20.86	
Pristipomoides macrophthalmus	19.20	4284	16.69	
Trachurus lepturus	9.20	18	0.00	
Upeneus parvus	7.20	516	6.26	
Haemulon boschmae	7.20	792	6.26	
Pristipomoides macrophthalmus	6.60	204	5.74	
Chaetodipterus faber	2.80	2	2.43	
Priacanthus arenatus	2.80	8	2.43	
Lutjanus purpureus	2.80	24	2.43	
MYCOPHIDAE	2.40	1512	2.09	
Lutjanus synagris	2.20	4	1.91	
Loligo pealei	1.20	84	1.04	
Trachurus lathami	1.20	696	1.04	
Haemulon steindachneri	0.80	2	0.70	
Haemulon aurolineatum	0.60	12	0.52	
Diplectrum radiale	0.60	12	0.52	
Rhomboplites aurorubens	0.24	12	0.21	
Penaeus notialis	0.00	24		
Shrimps, small, non comm.	0.00	384		
Porichthys sp	0.00	12		
Synodus sp	0.00	36		
Saurida sp	0.00	108		
Hoplunnis sp	0.00	12		
Bregmaceros sp.	0.00	48		
Decapterus punctatus	0.00	48		
Rhomboplites aurorubens	0.00	72		
Lepophidium sp	0.00	72		
Total	115.04		99.99	

PROJECT STATION: 209
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1116 Long W 6827
 TIME : 06:50 07:20 30 (min) Purpose code: 3
 LOG : 4746.80 4748.00 1.20 Area code : 3
 FDEPTH: 28 35 GearCond.code: 3
 DDEPTH: 28 35 Validity code:
 Towing dir: 318 Wire out: 100 m Speed: 28 kn*10
 Sorted: 5 Kg Total catch: 4.98 CATCH/HOUR: 9.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pomacanthus arcuatus	6.60	4	66.27	
Priacanthus arenatus	2.20	6	22.09	
Ogcocephalus nasutus	0.70	2	7.03	
Anchoviella sp	0.40	66	4.02	
Haemulon aurolineatum	0.06	2	0.60	
Pristipomoides macrophthalmus	0.00	6		
Puerulus sp	0.00	6		
Peprilus paru	0.00	4		
Epigonus sp	0.00	8		
Loligo plei	0.00	2		
Priacanthus sp	0.00	2		
Total	9.96		100.01	

PROJECT STATION: 210
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 6846
 TIME : 09:45 start stop duration Purpose code: 3
 LOG : 4771.00 4772.70 1.70 Area code : 3
 FDEPTH: 45 42 GearCond.code: 3
 BDEPTH: 45 42 Validity code:
 Towing dir: 280° Wire out: 150 m Speed: 32 kn*10
 Sorted: 4 Kg Total catch: 69.90 CATCH/HOUR: 139.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	45.60	12	32.62	528
Scomberomorus brasiliensis	28.10	30	20.10	529
Lutjanus synagris	20.30	40	14.52	530
Selene vomer	7.10	10	5.08	
Selene spixii	6.30	24	4.51	
Sphyrna tiburo	5.20	2	3.72	
Sardinella aurita	4.60	446	3.29	532
Chaetodipterus faber	4.20	2	3.00	
Loligo plei	3.96	272	2.83	531
Chirocentron bleekeri	3.84	2	2.75	
Sphyrna guachancho	3.48	4	2.49	
Engraulis eurystole	3.36	794	2.40	533
Priacanthus arenatus	2.80	2	1.96	
Chloroscombrus chrysurus	1.02	6	0.73	
Scomber japonicus	0.20	16	0.14	
Lolliguncula brevis	0.00	16		
Peprius paru	0.00	4		
Selene sp	0.00	0		
Total	139.86		100.04	

PROJECT STATION: 215
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1136 Long W 6925
 TIME : 10:15 start stop duration Purpose code: 3
 LOG : 4830.40 4831.70 1.30 Area code : 3
 FDEPTH: 40 28 GearCond.code: 3
 BDEPTH: 40 28 Validity code:
 Towing dir: 220° Wire out: 150 m Speed: 29 kn*10
 Sorted: 9 Kg Total catch: 70.57 CATCH/HOUR: 141.14

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyrna guachancho	25.60	38	18.14	544
Scomberomorus cavalla	17.60	4	12.47	543
Anchoa mitchilli	16.00	1760	11.34	
Lutjanus synagris	15.20	28	10.77	548
Chloroscombrus chrysurus	14.00	374	9.92	
Sphyrna picudilla	13.50	46	9.56	545
Selene setapinnis	11.60	42	8.22	
Anchoa lyolepis	5.00	430	3.54	
Lutjanus buccanella	4.20	4	2.98	546
Trachinotus carolinus	3.20	4	2.27	
Cynoscion virescens	3.20	2	2.27	
Lutjanus purpureus	2.70	2	1.91	547
Hemicaranx amblyrhynchus	2.60	4	1.84	
Loligo plei	2.00	120	1.42	
Buglosses plumieri	1.40	4	0.99	
Priacanthus arenatus	1.40	4	0.99	
Scomber japonicus	1.24	22	0.88	
Selar crumenophthalmus	0.58	4	0.41	
Sardinella aurita	0.12	28	0.09	
Total	141.14		100.01	

PROJECT STATION: 211
 DATE: 27/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1132 Long W 6852
 TIME : 11:20 start stop duration Purpose code: 1
 LOG : 4701.60 4783.50 1.90 Area code : 3
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 187 140 Validity code:
 Towing dir: 150° Wire out: 50 m Speed: 39 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
N O C A T C H I	0.00			
Total	0.00			

PROJECT STATION: 216
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1132 Long W 6931
 TIME : 19:40 start stop duration Purpose code: 1
 LOG : 4038.90 4840.70 1.80 Area code : 3
 FDEPTH: 20 22 GearCond.code:
 BDEPTH: 20 22 Validity code:
 Towing dir: 2° Wire out: 100 m Speed: 32 kn*10
 Sorted: 9 Kg Total catch: 225.30 CATCH/HOUR: 450.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus sp	120.80	8334	28.57	
Lutjanus buccanella	87.20	38	19.35	552
Lutjanus synagris	70.40	100	15.62	551
Upeneus parvus	30.80	3500	6.83	
Selene setapinnis	29.20	36	6.40	550
Selene vomer	22.00	52	4.88	549
Archosargus rhomboidalis	19.50	52	4.33	
Synodus sp	11.20	1008	2.48	
Chloroscombrus chrysurus	9.10	372	2.02	
Sardinella aurita	8.40	504	1.86	
Albula vulpes	6.44	14	1.43	
Mullidichthys martinicus	5.60	1428	1.24	
Sphyrna guachancho	4.56	10	0.01	
Lagodon rhomboides	3.78	4	0.84	
Selar crumenophthalmus	2.94	8	0.65	
Chaetodipterus faber	1.86	2	0.41	
Synodus foetens	1.74	8	0.39	
Acanthostracion quadricornis	1.68	8	0.37	
Scomberomorus cavalla	1.64	4	0.36	553
Conodon nobilic	1.50	4	0.35	
Bagre marinus	1.20	2	0.27	
Etrumeus teres	0.56	2212	0.12	
Saurida sp	0.56	532	0.12	
Haemulon boschmae	0.00	532		
Sphyrna picudilla	0.00	56		
Trachurus lathami	0.00	168		
Rhomboplites aurorubens	0.00	56		
Lutjanus purpureus	0.00	20		
Total	450.76		99.98	

PROJECT STATION: 212
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 6900
 TIME : 13:00 start stop duration Purpose code: 3
 LOG : 4792.30 4794.20 1.90 Area code : 3
 FDEPTH: 16 13 GearCond.code:
 BDEPTH: 16 13 Validity code:
 Towing dir: 270° Wire out: 50 m Speed: 34 kn*10
 Sorted: 2 Kg Total catch: 21.60 CATCH/HOUR: 43.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	33.60	30016	77.78	534
Anchoa lyolepis	9.60	5632	22.22	535
Caranx sp	0.00	48		
Engraulis eurystole	0.00	80		
Haemulon jaguana	0.00	16		
Opiosthema oglinum	0.00	32		
Total	43.20		100.00	

PROJECT STATION: 217
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1149 Long W 6928
 TIME : 22:05 start stop duration Purpose code: 1
 LOG : 4857.70 4858.70 1.00 Area code : 3
 FDEPTH: 260 255 GearCond.code:
 BDEPTH: 260 255 Validity code:
 Towing dir: 130° Wire out: 850 m Speed: 20 kn*10
 Sorted: 6 Kg Total catch: 33.30 CATCH/HOUR: 66.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Epigonus macrops	35.20	424	52.85	
Steindachneria argenta	9.60	352	14.41	
Illex coindetii	6.40	94	9.61	
Synagrops bellus	3.20	80	4.80	
Hoplunnis sp	2.40	104	3.60	
Solenocera sp	1.80	86	2.70	
SOLENO CERIDAE	1.76	388	2.64	
Saurida sp	1.60	8	2.40	
MYCTOPHIDAE	1.60	360	2.40	
Polyxenia lowei	0.80	16	1.20	
Plesionika sp	0.60	132	0.90	
Otophidium sp	0.40	8	0.60	
Neospinnula orientalis	0.40	8	0.60	
Merluccius albidus	0.40	2	0.60	
Antigonia capros	0.24	2	0.36	
Loligo pealei	0.20	2	0.30	
Hoplostethus sp	0.00	8		
Hoplostethus occidentalis	0.00	8		
Ornithotetis antillarum	0.00	48		
Peristodion sp	0.00	8		
Monolea sp	0.00	8		
Neobythites gillii	0.00	16		
Coelacanthus caribbaeus	0.00	24		
Argentina striata	0.00	8		
Total	66.60		99.97	

PROJECT STATION: 214
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1135 Long W 6917
 TIME : 16:20 start stop duration Purpose code: 3
 LOG : 4815.50 4817.30 1.80 Area code : 3
 FDEPTH: 43 51 GearCond.code:
 BDEPTH: 43 51 Validity code:
 Towing dir: 226° Wire out: 200 m Speed: 37 kn*10
 Sorted: 9 Kg Total catch: 63.10 CATCH/HOUR: 126.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	29.00		22.98	539
Trachurus lathami	20.00	3340	15.85	
Lutjanus analis	19.60	6	15.53	540
Loligo plei	16.00	1316	12.68	542
Calanus penna	12.00	18	10.14	
Selene setapinnis	11.20	34	8.87	
Calanus pennatula	4.40	4	3.49	
Chloroscombrus chrysurus	3.80	30	3.01	
Sphyrna picudilla	3.80	18	3.01	
Lutjanus purpureus	2.20	14	1.74	541
Priacanthus arenatus	2.20	6	1.74	
Aluterus monoceros	1.20	2	0.95	
Haemulon aurolineatum	0.00	4		
Ariomma bondi	0.00	4		
Sardinella aurita	0.00	12		
Scomber japonicus	0.00	4		
Total	126.20		99.99	

PROJECT STATION: 218
 DATE: 27/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1152 Long W 6927
 start stop duration Purpose code: 1
 TIME : 23:30 24:00 30 (min) Area code : 3
 LOG : 4867.40 4869.20 1.80 GearCond.code:
 FDEPTH: 340 336 Validity code:
 BDEPTH: 340 336
 Towing dir: 120° Wire out: 1200 m Speed: 32 kn*10
 Sorted: 10 Kg Total catch: 10.59 CATCH/HOUR: 21.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Steindachneria argenta	5.00	236	23.61	
Penaeopsis serrata	4.00	1980	18.89	
Illex coindetti	3.40	28	14.15	
Coelorrhinus caribbaeus	2.20	82	10.39	
MYCTOPHIDAE	1.20	290	5.67	
Polymixia lowei	1.20	24	5.67	
Aristaeomorpha foliacea	0.80	26	3.78	
Lepidopus caudatus	0.80	8	3.78	
Pontinus longispinis	0.80	8	3.78	
Bombrops amatrostris	0.80	6	2.83	
Neopinnula orientalis	0.60	4	1.42	
Parapanaeus sp	0.30	60	1.42	
SOLENERCIDAE	0.20	2	0.94	
Argentina striata	0.20	18	0.94	
Peristadion gracile	0.04	12	0.19	
Cyrtopsis roseus	0.04	10	0.19	
Plesionika sp	0.00	4		
Heterocaropus sp	0.00	4		
Epigonus sp	0.00	8		
GONOSTOMATIDAE	0.00	6		
Hoplostethus sp	0.00	2		
Ornithotus antillarum	0.00	12		
Ogcocephalus nasutus	0.00	4		
Synagrops bollus	0.00	2		
Peristadion sp	0.00	2		
Hoplunnis sp	0.00	6		
Argyropolecus sp	0.00	26		
Parasudis truculentus	0.00	2		
Total		21.18	100.02	

PROJECT STATION: 221
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1155 Long W 6944
 start stop duration Purpose code: 3
 TIME : 06:20 06:50 30 (min) Area code : 3
 LOG : 4916.00 4917.70 1.70 GearCond.code:
 FDEPTH: 26 43 Validity code:
 BDEPTH: 26 43
 Towing dir: 25° Wire out: 100 m Speed: 32 kn*10
 Sorted: 36 Kg Total catch: 36.40 CATCH/HOUR: 72.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus buccanella	22.20	20	30.49	
Sphyræna quachancho	13.00	18	17.86	
Lutjanus synagris	8.10	16	11.13	
Chaetodipterus faber	6.00	4	8.24	
Selar crumenophthalmus	4.60	8	6.32	
Peprilus paru	2.90	6	3.98	
Eucinostomus sp	2.20	68	3.02	
Loligo plei	1.60	224	2.20	
Sphyræna picudilla	1.60	10	2.20	
Conodon nobilis	1.50	6	2.06	
Haemulon steindachneri	1.20	6	1.65	
Prionotus punctatus	1.20	4	1.65	
Trichiurus lepturus	1.20	2	1.65	
Lutjanus griseus	1.20	4	1.65	
Selene vomer	1.10	2	1.51	
Microgogonias furnieri	1.10	2	1.51	
Acanthostracion quadricornis	0.70	4	0.96	
Cynoscion jamaicensis	0.60	2	0.82	
Selene setapinnis	0.40	2	0.55	
Saurida sp	0.20	98	0.27	
Loliguncula brevis	0.10	40	0.14	
Upeneus parvus	0.08	18	0.11	
Chloroscombrus chrysurus	0.04	6	0.05	
Anchoa sp	0.00	12		
Trachurus lathami	0.00	10		
Xiphopenaeus kroyeri	0.00	6		
Diplectrum radiale	0.00	6		
Trichiurus lepturus	0.00	6		
Selene sp	0.00	10		
Lutjanus purpureus	0.00	2		
Lepophidium sp	0.00	2		
Dactylopterus volitans	0.00	2		
Total		72.82	100.02	

PROJECT STATION: 219
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1149 Long W 6925
 start stop duration Purpose code: 1
 TIME : 00:55 01:10 15 (min) Area code : 3
 LOG : 4871.90 4872.60 0.70 GearCond.code:
 FDEPTH: 315 320 Validity code:
 BDEPTH: 315 320
 Towing dir: 140° Wire out: 1050 m Speed: 29 kn*10
 Sorted: 14 Kg Total catch: 15.05 CATCH/HOUR: 60.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Squatina dumeril	46.40	4	77.08	
Steindachneria argenta	6.40	268	10.63	
Penaeopsis serrata	2.40	1104	3.99	
Polymixia lowei	2.00	24	3.32	
MYCTOPHIDAE	0.80	320	1.33	
Parapanaeus sp	0.40	84	0.66	
Aristaeomorpha foliacea	0.40	12	0.66	
SEPIOLIDAE	0.40	32	0.66	
Bombrops amatrostris	0.40	8	0.66	
Cyrtopsis roseus	0.20	36	0.33	
Coelorrhinus caribbaeus	0.16	36	0.27	
Peristadion gracile	0.12	20	0.20	
Illex coindetti	0.08	12	0.13	
Plesionika sp	0.04	24	0.07	
Solenocera sp	0.00	4		
PANDALIDAE	0.00	12		
Heterocaropus sp	0.00	8		
Ornithotus antillarum	0.00	8		
SEPIOLIDAE	0.00	8		
Etmopterus sp	0.00	8		
Lepidopus caudatus	0.00	8		
CHLOROPHTHALMIDAE	0.00	4		
Epigonus sp	0.00	20		
Argentina striata	0.00	8		
Total		60.20	99.99	

PROJECT STATION: 222
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1159 Long W 6940
 start stop duration Purpose code: 3
 TIME : 07:30 07:55 25 (min) Area code : 3
 LOG : 4923.00 4924.70 1.70 GearCond.code:
 FDEPTH: 196 195 Validity code:
 BDEPTH: 196 195
 Towing dir: 130° Wire out: 850 m Speed: 40 kn*10
 Sorted: 22 Kg Total catch: 22.00 CATCH/HOUR: 52.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	29.64	324	56.14	
Loligo pealei	16.80	319	31.82	558
Hemanthias leptus	3.36	12	6.36	
Spinax hololepis	2.96	2	1.82	
Priacanthus arenatus	0.89	2	1.69	
LOLIGINIDAE	0.48	72	0.91	
Prionotus roseus	0.36	5	0.68	
Antigonia capros	0.24	2	0.45	
Penaeus brasiliensis	0.07	2	0.13	
Monolena sp	0.00	2		
Peristadion gracile	0.00	2		
Antigonia coelestis	0.00	5		
Upeneus parvus	0.00	2		
Illex sp	0.00	5		
Total		52.80	100.00	

PROJECT STATION: 220
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 6939
 start stop duration Purpose code: 1
 TIME : 03:15 03:45 30 (min) Area code : 3
 LOG : 4890.50 4892.10 1.60 GearCond.code:
 FDEPTH: 17 18 Validity code:
 BDEPTH: 17 18
 Towing dir: 8° Wire out: 100 m Speed: 32 kn*10
 Sorted: 105 Kg Total catch: 107.30 CATCH/HOUR: 214.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dasyatis guttata	60.00	8	27.96	
Haemulon steindachneri	47.00	298	21.90	556
Lutjanus synagris	21.60	50	10.07	555
Conodon nobilis	19.00	78	8.85	557
Lutjanus griseus	8.40	28	3.91	554
Eucinostomus sp	7.60	560	3.54	
Acanthostracion quadricornis	7.60	44	3.54	
Bagre marinus	7.60	16	3.54	
Sphyræna quachancho	5.00	10	2.33	
Chloroscombrus chrysurus	4.00	44	2.24	
Selene vomer	3.40	4	1.58	
Umbrina sp	3.00	18	1.40	
Chirocentrodon bleekeri	2.40	12	1.12	
Cynoscion jamaicensis	2.40	16	1.12	
Rhizoprionodon lalandii	2.40	8	1.12	
Chaetodipterus faber	2.40	2	1.12	
Lutjanus analis	2.20	8	1.03	
Selene setapinnis	1.40	26	0.65	
Scorpaena plumieri	1.00	2	0.47	
Haemulon sp	0.80	320	0.37	
Ctenosciaena gracilicirrus	0.80	22	0.37	
Diapterus rhombus	0.60	2	0.28	
Larimus breviceps	0.50	2	0.23	
Loliguncula brevis	0.40	120	0.19	
Trichiurus lepturus	0.40	112	0.19	
Archosargus rhomboidalis	0.40	2	0.19	
Trichiurus lepturus	0.40	4	0.19	
Pomadourus corvinaeformis	0.20	2	0.09	
Albula vulpes	0.20	2	0.09	
Polydactylus virginicus	0.20	4	0.09	
Bairdiella charrata	0.20	2	0.09	
Porichthys sp	0.10	4	0.05	
Orthopristis ruber	0.10	2	0.05	
Prionotus sp	0.00	48		
Sardinella aurita	0.00	80		
Anchoa sp	0.00	40		
Saurida sp	0.00	64		
Selene sp	0.00	24		
Sphyræna picudilla	0.00	8		
Lutjanus synagris	0.00	96		
Upeneus parvus	0.00	16		
Citharichthys sp	0.00	2		
Sphyræna picudilla	0.00	4		
Diplectrum radiale	0.00	2		
Dactylopterus volitans	0.00	2		
Total		214.50	99.96	

PROJECT STATION: 223
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1213 Long W 7002
 start stop duration Purpose code: 3
 TIME : 11:50 12:20 30 (min) Area code : 3
 LOG : 4961.70 4962.70 1.00 GearCond.code:
 FDEPTH: 31 25 Validity code:
 BDEPTH: 31 25
 Towing dir: 270° Wire out: 150 m Speed: 20 kn*10
 Sorted: 9 Kg Total catch: 9.14 CATCH/HOUR: 18.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	5.20	20	28.45	
Rhizoprionodon porosus	5.20	2	28.45	
Ocyurus chrysurus	2.92	4	15.97	
Bagre marinus	2.20	4	12.04	
Caranx crysos	1.58	2	8.64	
Alaetis ciliaris	0.62	4	3.39	
Pristipomoides macrophthalmus	0.56	4	3.06	
Peprilus paru	0.00	6		
Total		18.28	100.00	

PROJECT STATION: 224
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1222 Long W 7016
 start stop duration Purpose code: 3
 TIME : 15:25 15:55 30 (min) Area code : 3
 LOG : 4984.40 4984.50 0.10 GearCond.code:
 FDEPTH: 72 75 Validity code:
 BDEPTH: 72 75
 Towing dir: 297° Wire out: 250 m Speed: 1 kn*10
 Sorted: 8 Kg Total catch: 100.50 CATCH/HOUR: 201.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scombor japonicus	75.60	7056	37.61	563
Engraulis eurystole	43.20	4032	21.49	564
Sphyræna picudilla	32.00	146	15.92	559
Etrumeus teres	21.60	552	10.75	
Loligo plei	14.40	1498	7.16	561
Priacanthus arenatus	8.00	36	3.98	
Loligo pealei	3.60	132	1.79	560
Selar crumenophthalmus	0.80	6	0.40	
Chloroscombrus chrysurus	0.60	4	0.30	
Trachurus lathami	0.40	4	0.20	
Pistularia petimba	0.40	2	0.20	
TRACHIPTERIDAE	0.40	2	0.20	
Total		201.00	100.00	

PROJECT STATION: 225
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1231 Long W 7031
 TIME : 17:45 start stop duration 30 (min) Purpose code: 3
 LOG : 4996.90 4997.10 0.20 Area code : 3
 FDEPTH: 76 77 GearCond.code:
 DDEPTH: 76 77 Validity code:
 Towing dir: 297' Wire out: 350 m Speed: 2 kn*10
 Sorted: 22 Kg Total catch: 22.55 CATCH/HOUR: 45.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	17.80	6	39.47	567
Rhomboplites aurorubens	15.90	88	35.25	564
Loligo plei	5.20	212	11.53	565
Loligo pealei	2.20	26	4.88	566
Priacanthus arenatus	2.20	10	4.88	
Lutjanus purpureus	1.20	2	2.66	
Pristipomoides macrophthalmus	0.40	4	0.89	
Selar crumenophthalmus	0.20	2	0.44	
Upeneus parvus	0.00	2		
Total	45.10		100.00	

PROJECT STATION: 230
 DATE: 29/ 2/88 GEAR TYPE: PT No:4 POSITION: Lat N 1129 Long W 7018
 TIME : 20:20 start stop duration 30 (min) Purpose code: 1
 LOG : 5118.60 5120.20 1.60 Area code : 3
 FDEPTH: 0 0 GearCond.code:
 DDEPTH: 22 25 Validity code:
 Towing dir: 10' Wire out: 50 m Speed: 26 kn*10
 Sorted: 35 Kg Total catch: 141.00 CATCH/HOUR: 202.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	178.40	3690	63.26	573
Orthopristis ruber	66.80	360	23.69	574
ENGRAULIDAE	14.40			
Loligo plei	7.60	248	5.11	
Scomber japonicus	4.00	352	1.42	
Eucinostomus gula	3.20	72	1.13	
Sardinella aurita	3.20	104	1.13	
Paralichthys tropicus	2.40	8	0.85	
Prionotus sp	1.20	8	0.43	
Citharichthys sp	0.80	16	0.28	
Monacanthus sp	0.00	8		
Upeneus parvus	0.00	24		
Total	202.00		100.00	

PROJECT STATION: 226
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1230 Long W 7048
 TIME : 20:20 start stop duration 15 (min) Purpose code: 1
 LOG : 5011.60 5012.10 0.50 Area code : 3
 FDEPTH: 74 79 GearCond.code:
 DDEPTH: 74 79 Validity code:
 Towing dir: 178' Wire out: 300 m Speed: 27 kn*10
 Sorted: 11 Kg Total catch: 46.36 CATCH/HOUR: 185.44

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	151.20	12972	81.54	
Rhomboplites aurorubens	18.00	264	9.71	
Trachurus lathami	7.32	104	3.95	
Penaeus brasiliensis	3.40	68	1.83	568
Pristipomoides macrophthalmus	3.04	80	1.64	
Scomber japonicus	1.72	12	0.93	
Eucinostomus sp	0.28	12	0.15	
Synodus sp	0.24	216	0.13	
Inemulon boschmae	0.24	144	0.13	
Decapterus tabl	0.00	24		
Saurida normani	0.00	24		
Apogon sp	0.00	48		
Dactylopterus volitans	0.00	48		
Total	185.44		100.01	

PROJECT STATION: 231
 DATE: 29/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 7021
 TIME : 23:05 start stop duration 30 (min) Purpose code: 1
 LOG : 5132.10 5133.70 1.60 Area code : 3
 FDEPTH: 25 32 GearCond.code:
 DDEPTH: 25 32 Validity code:
 Towing dir: 310' Wire out: 100 m Speed: 32 kn*10
 Sorted: 26 Kg Total catch: 74.00 CATCH/HOUR: 148.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Orthopristis ruber	63.00	280	42.52	
Cynoscion macrolepidotus	40.00	32	27.00	575
Eucinostomus gula	28.40	1590	19.17	576
Engraulis aurystole	6.80	1476	4.59	
Trachurus lathami	3.40	56	2.29	
Scomber japonicus	2.80	732	1.89	
Cynoscion jamaicensis	1.60	4	1.08	
Loligo plei	1.20	60	0.81	
Sardinella aurita	0.32	40	0.22	
Chloroscombrus chrysurus	0.20	8	0.13	
Eturusus teres	0.20	96	0.13	
Sphyræna plicadilla	0.20	24	0.13	
Bairdiella sanctaeluciae	0.04	2	0.03	
BOTHIDAE	0.00	4		
Saurida caribbaea	0.00	168		
Synodus poeyi	0.00	40		
Selene sp	0.00	8		
Peprilus paru	0.00	32		
Anchoa sp	0.00	16		
Pomatomus saltatrix	0.00	16		
Aluterus sp	0.00	8		
Opisthonema oglinum	0.00	4		
Upeneus parvus	0.00	52		
Inemulon boschmae	0.00	4		
Diplecetrum formosum	0.00	16		
Total	148.16		99.99	

PROJECT STATION: 227
 DATE: 28/ 2/88 GEAR TYPE: BT No:1 POSITION: Lat N 1221 Long W 7048
 TIME : 22:15 start stop duration 30 (min) Purpose code: 1
 LOG : 5027.30 5028.70 1.40 Area code : 3
 FDEPTH: 61 55 GearCond.code:
 DDEPTH: 61 55 Validity code:
 Towing dir: 178' Wire out: 250 m Speed: 30 kn*10
 Sorted: 12 Kg Total catch: 109.77 CATCH/HOUR: 219.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	135.60	25868	61.77	
Trachurus lathami	21.60	648	9.04	
Haemulon boschmae	18.00	1656	8.20	
Rhomboplites aurorubens	12.60	408	5.74	
Priacanthus arenatus	8.40	48	3.83	
Synodus sp	7.20	360	3.28	
Engraulis aurystole	6.00	768	2.73	
Loligo plei	5.10	192	2.32	
Penaeus brasiliensis	1.80	54	0.82	
Saurida sp	1.20	192	0.55	
Porichthys sp	0.72	48	0.33	
Eturusus teres	0.72	96	0.33	
Dactylopterus volitans	0.60	150	0.27	
Pristipomoides macrophthalmus	0.00	144		
Prionotus stearnsi	0.00	72		
Scomber japonicus	0.00	72		
APOGONIDAE	0.00	432		
Total	219.54		100.01	

PROJECT STATION: 232
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1133 Long W 7028
 TIME : 00:35 start stop duration 30 (min) Purpose code: 1
 LOG : 5141.50 5142.90 1.40 Area code : 3
 FDEPTH: 36 35 GearCond.code:
 DDEPTH: 36 35 Validity code:
 Towing dir: 205' Wire out: 150 m Speed: 29 kn*10
 Sorted: 3 Kg Total catch: 19.50 CATCH/HOUR: 39.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Synodus sp	8.80	864	22.56	
Upeneus parvus	5.60	1052	14.36	
Loligo plei	4.00	152	10.26	
Cynoscion jamaicensis	3.20	12	8.21	
Orthopristis ruber	3.20	12	8.21	
Scomber japonicus	2.40	232	6.15	
Saurida sp	2.00	1896	5.13	
Trachurus lathami	1.60	408	4.10	
Eucinostomus sp	1.20	48	3.08	
Pristipomoides macrophthalmus	1.20	320	3.08	
Prionotus punctatus	1.00	4	2.56	
Diplecetrum radiale	0.80	56	2.05	
Trichurus lepturus	0.60	8	1.54	
Balistes capricus	0.60	2	1.54	
Penaeus notialis	0.60	32	1.54	577
Loligo pealei	0.40	40	1.03	
Loligo sp	0.40	208	1.03	
Peprilus paru	0.40	80	1.03	
Sphyræna guachancho	0.40	2	1.03	
Ctenosciaena gracilicirrus	0.20	4	0.51	
Sardinella aurita	0.20	2	0.51	
Penaeus brasiliensis	0.20	4	0.51	578
Lonchopisthus sp	0.00	8		
Prionotus punctatus	0.00	424		
Decapterus sp	0.00	8		
Diodon sp.	0.00	0		
Lonchopisthus higmani	0.00	160		
Haemulon boschmae	0.00	8		
Chloroscombrus chrysurus	0.00	24		
Selene sp	0.00	40		
Total	39.00		100.02	

PROJECT STATION: 228
 DATE: 29/ 2/88 GEAR TYPE: PT No:2 POSITION: Lat N 1207 Long W 7048
 TIME : 01:10 start stop duration 30 (min) Purpose code: 1
 LOG : 5042.60 5044.50 1.90 Area code : 3
 FDEPTH: 20 20 GearCond.code:
 DDEPTH: 63 62 Validity code:
 Towing dir: 180' Wire out: 100 m Speed: 36 kn*10
 Sorted: 36 Kg Total catch: 184.25 CATCH/HOUR: 368.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis aurystole	320.00		86.84	569
Scomber japonicus	26.00		7.06	570
Scomberomorus sp	12.00	100	3.26	
Chirocentrodon bleekeriensis	4.00	1270	1.09	
Scomberomorus sp	3.00	1530	0.81	
Sardinella aurita	2.00	130	0.54	
Saurida sp	1.00	230	0.27	
Selar crumenophthalmus	0.50	10	0.14	
Lagodon rhomboides	0.00	20		
Loliguncula brevis	0.00	10		
Eturusus teres	0.00	30		
Bregmaceros sp.	0.00	20		
Total	368.50		100.01	

PROJECT STATION: 229
 DATE: 29/ 2/88 GEAR TYPE: PT No:2 POSITION: Lat N 1140 Long W 7016
 TIME : 17:50 start stop duration 30 (min) Purpose code: 1
 LOG : 5101.10 5103.10 2.00 Area code : 3
 FDEPTH: 5 10 GearCond.code:
 DDEPTH: 25 31 Validity code:
 Towing dir: 7' Wire out: 50 m Speed: 37 kn*10
 Sorted: 8 Kg Total catch: 8.25 CATCH/HOUR: 16.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	6.20	300	37.58	572
Scomber japonicus	5.00	394	30.30	571
Trachurus lathami	5.00	62	30.30	
Loligo plei	0.30	4	1.82	
MAJIDAE	0.00	8		
Sardinella aurita	0.00	8		
Monacanthus sp	0.00	12		
Peprilus paru	0.00	46		
Selene sp	0.00	8		
Hemicaranx sp	0.00	4		
Total	16.50		100.00	

PROJECT STATION: 233
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1127 Long W 7036
 start stop duration
 TIME : 02:40 03:10 30 (min) Purpose code: 1
 LOG : 5156.70 5158.00 1.30 Area code : 3
 FDEPTH: 23 27 GearCond.code:
 BDEPTH: 23 27 Validity code:
 Towing dir: 319° Wire out: 100 m Speed: 26 kn*10
 Sorted: 2 Kg Total catch: 40.95 CATCH/HOUR: 81.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Orthopristis ruber	29.60	112	36.14	579
Eucinostomus sp	20.80		25.40	
Small squids unidentified	11.20		13.68	
SYNODONTIDAE	7.20		8.79	
Ophidion sp.	2.40	48	2.93	
Diplectrum formosum	2.40	144	2.93	
Trachinotus carolinus	2.20	2	2.69	
Conodon nobilis	1.80	4	2.20	
Gymnothorax ocellatus	1.00	4	1.22	
Priacanthus arenatus	1.00	2	1.22	
Chloroscombrus chrysurus	0.80	26	0.98	
Haemulon steindachneri	0.60	2	0.73	
Scorpaena isthaensis	0.40	8	0.49	
Sardinella aurita	0.20	2	0.24	
Lutjanus synagris	0.20	2	0.24	
Aluterus sp	0.10	2	0.12	
Trichiurus lepturus	0.00	8		
Upeneus parvus	0.00	72		
Peprilus paru	0.00	40		
Porichthys sp	0.00	2		
Penaeus notialis	0.00	2		
Penaeus brasiliensis	0.00	8		
Total	81.90		100.00	

PROJECT STATION: 234
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1135 Long W 7044
 start stop duration
 TIME : 04:25 04:55 30 (min) Purpose code: 1
 LOG : 5167.60 5169.10 1.50 Area code : 3
 FDEPTH: 30 31 GearCond.code:
 BDEPTH: 30 31 Validity code:
 Towing dir: 315° Wire out: 150 m Speed: 27 kn*10
 Sorted: 97 Kg Total catch: 97.90 CATCH/HOUR: 195.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Calanus penna	37.80	94	19.31	501
Priacanthus arenatus	30.80	80	15.73	
Orthopristis ruber	25.60	112	13.07	582
Chloroscombrus chrysurus	11.40	60	5.82	
Lutjanus synagris	9.40	30	4.80	580
Gymnothorax ocellatus	6.80	34	3.47	
Galistes capricus	6.40	12	3.27	
Selar crumenophthalmus	6.20	22	3.17	
Uraspis secunda	5.00	6	2.55	
Selene vomer	4.40	6	2.25	
Sphyræna quachancho	4.40	6	2.25	
Lutjanus griseus	4.00	8	2.04	
Pseudocaranx dentox	3.90	2	1.99	
Rhinoplistes aurorubens	3.60	10	1.84	
Fistularia tabacaria	3.20	6	1.63	
Elops saurus	3.20	4	1.63	
Lolliguncula brevis	3.00		1.53	
Lactophrys trigonus	3.00	2	1.53	
Scomberomorus cavalla	2.80	2	1.43	
Coryphaena hippurus	2.60	2	1.31	
Haemulon steindachneri	2.40	16	1.23	
Trachinotus carolinus	2.40	2	1.23	
Anisotremus virginicus	2.20	8	1.12	
Eucinostomus gula	2.12	34	1.08	
Ablennes hians	1.40	2	0.72	
Lagocephalus laevigatus	1.40	2	0.72	
Aluterus monoceros	1.20	4	0.61	
Calanus cervigoni	1.00	12	0.51	
Haemulon plumieri	1.00	2	0.51	
Rhinobatos percellens	0.60	2	0.31	
Aleotis ciliaris	0.60	2	0.31	
Sphyræna plicidilla	0.60	2	0.31	
Orthopristis sp	0.40	2	0.20	
Scorpaena plumieri	0.40	2	0.20	
Diplectrum formosum	0.40	12	0.20	
Chilomycterus antillarum	0.20	2	0.10	
Total	195.82		100.00	

PROJECT STATION: 235
 DATE: 1/ 3/88 GEAR TYPE: PT No:2 POSITION: Lat N 1131 Long W 7048
 start stop duration
 TIME : 06:55 07:10 15 (min) Purpose code: 1
 LOG : 5183.10 5183.90 0.80 Area code : 3
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 20 27 Validity code:
 Towing dir: 336° Wire out: 50 m Speed: 29 kn*10
 Sorted: 2 Kg Total catch: 388.00 CATCH/HOUR: 1552.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Etrumeus teros	978.40	305260	63.04	584
Engraulis eurystole	570.80	185508	36.78	583
Echeneis naucrates	2.80	4	0.18	
Total	1552.00		100.00	

PROJECT STATION: 236
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1117 Long W 7048
 start stop duration
 TIME : 09:40 10:10 30 (min) Purpose code: 3
 LOG : 5201.40 5203.00 1.60 Area code : 3
 FDEPTH: 11 11 GearCond.code:
 BDEPTH: 11 11 Validity code:
 Towing dir: 149° Wire out: 50 m Speed: 32 kn*10
 Sorted: 1 Kg Total catch: 1.07 CATCH/HOUR: 2.14

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Priacanthus arenatus	2.00	4	93.46	
Lolliguncula brevis	0.10	22	4.67	
ENGRAULIDIDAE	0.04		1.87	
Dactylopterus volitans	0.00	2		
Saurida sp	0.00	32		
Chloroscombrus chrysurus	0.00	10		
Total	2.14		100.00	

PROJECT STATION: 237
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7059
 start stop duration
 TIME : 11:50 12:20 30 (min) Purpose code: 3
 LOG : 5218.40 5220.00 1.60 Area code : 3
 FDEPTH: 13 13 GearCond.code:
 BDEPTH: 13 13 Validity code:
 Towing dir: 359° Wire out: 50 m Speed: 32 kn*10
 Sorted: 60 Kg Total catch: 60.85 CATCH/HOUR: 121.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	44.00	340	36.15	585
Trichiurus lepturus	30.60	48	25.14	
Opisthonema oglinum	22.40	178	18.41	586
Oligoplites saliens	6.40	40	5.26	
Chaetodipterus faber	4.70	4	3.86	
Rhinopristonodon porosus	4.20	8	3.45	
Peprilus paru	2.80	16	2.30	
Bagre marinus	1.80	2	1.48	
Hemicaranx amblyrhynchus	1.80	8	1.48	
Elops saurus	1.60	2	1.31	
Lycengraulis grossidens	1.20	46	0.99	
Scomberomorus regalis	0.10	2	0.08	
Harengula jaguana	0.10	6	0.08	
Pellona harroweri	0.00	4		
Selene sp	0.00	2		
Total	121.70		99.99	

PROJECT STATION: 238
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7109
 start stop duration
 TIME : 14:50 15:20 30 (min) Purpose code: 3
 LOG : 5244.10 5245.70 1.60 Area code : 3
 FDEPTH: 14 14 GearCond.code:
 BDEPTH: 14 14 Validity code:
 Towing dir: 180° Wire out: 50 m Speed: 33 kn*10
 Sorted: 14 Kg Total catch: 14.00 CATCH/HOUR: 28.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	11.00	32	39.29	589
Chloroscombrus chrysurus	10.00	54	35.71	587
Opisthonema oglinum	6.40	44	22.86	588
Hemicaranx amblyrhynchus	0.60	4	2.14	
Peprilus paru	0.00	10		
Total	28.00		100.00	

PROJECT STATION: 239
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1108 Long W 7109
 start stop duration
 TIME : 17:25 17:55 30 (min) Purpose code: 3
 LOG : 5265.20 5266.80 1.60 Area code : 3
 FDEPTH: 9 9 GearCond.code:
 BDEPTH: 9 9 Validity code:
 Towing dir: 270° Wire out: 50 m Speed: 32 kn*10
 Sorted: 13 Kg Total catch: 13.15 CATCH/HOUR: 26.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	9.90	124	37.64	590
Trichiurus lepturus	7.70	52	29.28	
Opisthonema oglinum	5.60	142	21.29	591
Scomberomorus regalis	2.00	4	7.60	
Peprilus paru	1.00	8	3.80	
Anchoa lyolepis	0.10	40	0.38	
ENGRAULIDIDAE	0.00			
Lolliguncula brevis	0.00	2		
Hemicaranx amblyrhynchus	0.00	2		
Chirocentron bleekermanus	0.00	4		
Total	26.30		99.99	

PROJECT STATION: 240
 DATE: 1/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1115 Long W 7116
 start stop duration
 TIME : 19:20 19:50 30 (min) Purpose code: 1
 LOG : 5279.20 5280.40 1.20 Area code : 3
 FDEPTH: 11 11 GearCond.code:
 BDEPTH: 11 11 Validity code:
 Towing dir: Wire out: 50 m Speed: 23 kn*10
 Sorted: 16 Kg Total catch: 109.90 CATCH/HOUR: 219.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	35.80	98	16.29	592
Chloroscombrus chrysurus	27.00	222	12.28	
Opisthonema oglinum	24.00	186	10.92	593
Cynoscion leiarchus	22.40	2	10.19	
Elops saurus	20.00	20	9.10	
Pellona harroweri	16.80	3304	7.64	
Microgogonias furnieri	15.20	40	6.92	
Chirocentron bleekermanus	11.40	1428	5.19	
Chaetodipterus faber	10.80	6	4.91	
Peprilus paru	9.94	14	4.52	
Anchoa spinnifer	7.20	836	3.28	594
Lycengraulis grossidens	6.90	42	3.14	
Cynoscion steindachneri	3.36	174	1.53	
Scomberomorus cavalla	2.70	8	1.23	
Sphyræna quachancho	1.80	2	0.82	
Isopisthus parvipinnis	1.50	132	0.68	
Anchoa lyolepis	1.20	60	0.55	
Cynoscion jamaicensis	1.20	6	0.55	
Harengula jaguana	0.60	24	0.27	
Shrimp, small, non comm.	0.00	84		
Lolliguncula brevis	0.00	102		
Penaeus schmitti	0.00	12		
Trichiurus lepturus	0.00	156		
Total	219.80		100.01	

PROJECT STATION: 241
 DATE: 1/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1124 Long W 7127
 TIME : 22:15 22:45 30 (min) Purpose code: 1
 LOG :5302.90 5304.50 1.60 Area code : 3
 FDEPTH: 15 15 GearCond.code:
 BDEPTH: 15 15 Validity code:
 Towing dir: 180° Wire out: 50 m Speed: 34 kn*10
 Sorted: 28 Kg Total catch: 20.00 CATCH/HOUR: 56.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	16.80	122	30.00	595
Sphyrna lewini	12.40	2	22.14	
Chloroscombrus chrysurus	10.20	60	18.21	
Trichiurus lepturus	6.00	42	10.71	
Scorpaenomorpha regalis	3.20	4	5.71	
Harengula jaguana	2.00	56	3.57	
Chirocentrodon bleekeriianus	2.00	376	3.57	
Peprilus paru	1.20	4	2.14	
Microgogonias furnieri	1.00	2	1.79	
Lycengraulis grossidens	0.60	8	1.07	
Pellona harroweri	0.40	44	0.71	
Lolliguncula brevis	0.20	50	0.36	
Total	56.00		99.98	

PROJECT STATION: 242
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1110 Long W 7139
 TIME : 02:20 02:50 30 (min) Purpose code: 1
 LOG :5337.40 5338.60 1.20 Area code : 3
 FDEPTH: 11 12 GearCond.code:
 BDEPTH: 11 12 Validity code:
 Towing dir: 268° Wire out: 50 m Speed: 24 kn*10
 Sorted: 25 Kg Total catch: 210.00 CATCH/HOUR: 420.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pellona harroweri	72.00	5020	17.14	
Isopisthus parvipinnis	55.00	3370	13.10	
Odontognathus compressus	48.00	8880	11.43	
Cathorops spixii	45.00	150	8.33	
Opisthonema oglinum	35.00	390	10.71	
Chloroscombrus chrysurus	26.00	180	6.19	
Trichiurus lepturus	21.00	60	5.00	
Anchoa spinifer	10.00	1500	4.29	
Peprilus paru	17.00	800	4.05	
Shrimps, small, non comm.	12.00	11220	2.86	
Trichiurus lepturus	12.00	1860	2.86	
Caranx hippos	10.90	2	2.60	
Cynoscion acoupa	10.50	2	2.50	
Microgogonias furnieri	8.00	20	1.90	
Selene sp	6.00	1020	1.43	
Cynoscion leirarchus	5.00	10	1.19	
Penaeus schmitti	5.00	180	1.19	
Scorpaenomorpha regalis	4.60	12	1.10	
Cynoscion virescens	4.00	10	0.95	
Cynoscion jamaicensis	3.00	20	0.71	
Stellifer sp	2.00	160	0.48	
Cynoscion jamaicensis	0.00	180		
Lolliguncula brevis	0.00	10		
Total	420.00		100.01	

PROJECT STATION: 243
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1111 Long W 7147
 TIME : 03:45 04:15 30 (min) Purpose code: 1
 LOG :5345.60 5346.30 0.70 Area code : 3
 FDEPTH: 11 11 GearCond.code:
 BDEPTH: 11 11 Validity code:
 Towing dir: 320° Wire out: 50 m Speed: 13 kn*10
 Sorted: 3 Kg Total catch: 47.65 CATCH/HOUR: 95.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dasyatis guttata	22.80	6	23.92	596
Chloroscombrus chrysurus	20.00	156	20.99	597
Anchoa lyolepis	9.60	5136	10.07	598
Pellona harroweri	7.20	688	7.56	
Sphyrna guachancho	6.60	12	6.93	
Trichiurus lepturus	5.20	18	5.46	
Opisthonema oglinum	4.24	90	4.45	
Anchoa spinifer	4.00	408	4.20	
Chirocentrodon bleekeriianus	3.20	832	3.36	
Echeneis naucrates	2.40	2	2.52	
Oligoplites saliens	2.00	8	2.10	
Microgogonias furnieri	2.00	4	2.10	
Carcharhinus porosus	1.80	2	1.89	
Shrimps, small, non comm.	1.60	144	1.68	
Scorpaenomorpha regalis	1.40	2	1.47	
Synodus foetens	0.60	2	0.63	
Cynoscion jamaicensis	0.20	2	0.21	
Isopisthus parvipinnis	0.20	2	0.21	
Lycengraulis grossidens	0.16	8	0.17	
Scorpaenomorpha brasiliensis	0.10	2	0.10	
Eucinostomus sp	0.00	16		
Odontognathus compressus	0.00	8		
Anchoa hepsetus	0.00	80		
Chloroscombrus chrysurus	0.00	40		
Peprilus paru	0.00	8		
Lolliguncula brevis	0.00	120		
Total	95.30		100.02	

PROJECT STATION: 244
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1117 Long W 7139
 TIME : 06:15 06:25 10 (min) Purpose code: 3
 LOG :5364.50 5364.70 0.20 Area code : 3
 FDEPTH: 15 15 GearCond.code:
 BDEPTH: 15 15 Validity code:
 Towing dir: 30° Wire out: 100 m Speed: 15 kn*10
 Sorted: 9 Kg Total catch: 104.16 CATCH/HOUR: 1104.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Isopisthus parvipinnis	142.20	5400	12.87	
Microgogonias furnieri	103.20	456	9.34	
Stellifer sp	102.48	14742	9.27	
Pellona harroweri	87.36	10482	7.91	
Xiphopenaeus kroyeri	87.36	30360	7.91	
Cynoscion acoupa	85.80	18	7.76	
Anchoa spinifer	76.20	4584	6.90	
Dasyatis gajskesi	55.80	12	5.05	
Chloroscombrus chrysurus	54.60	420	4.94	
Trichiurus lepturus	54.60	1218	4.94	
Chirocentrodon bleekeriianus	43.68	7420	3.95	
Cynoscion virescens	40.32	126	3.65	
Opisthonema oglinum	25.20	210	2.28	
Centropomus undecimalis	21.90	6	1.98	
Macraron ancylodon	21.00	66	1.90	599
Cynoscion jamaicensis	16.80	54	1.52	
Centropomus parallelus	13.20	48	1.19	
Scorpaenomorpha regalis	12.00	12	1.09	
Penaeus schmitti	11.40	360	1.03	600
Elops saurus	11.40	12	1.03	
Larimus breviceps	9.66	462	0.87	
Bagre marinus	6.60	6	0.60	
Carcharhinus porosus	6.30	12	0.57	
Oligoplites saurus	6.30	18	0.57	
Cynoscion staidachneri	4.20	252	0.38	
Ophiocion sp	3.24	330	0.29	
Peprilus paru	2.16	654	0.20	
Bagre marinus	0.00	330		
Chloroscombrus chrysurus	0.00	108		
Alectis ciliaris	0.00	108		
Selene sp	0.00	330		
Lolliguncula brevis	0.00	1308		
Trichiurus lepturus	0.00	654		
Total	1104.96		99.99	

PROJECT STATION: 245
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1125 Long W 7146
 TIME : 08:50 09:20 30 (min) Purpose code: 3
 LOG :5387.60 5388.90 1.30 Area code : 3
 FDEPTH: 21 21 GearCond.code:
 BDEPTH: 21 21 Validity code:
 Towing dir: 266° Wire out: 100 m Speed: 24 kn*10
 Sorted: 31 Kg Total catch: 543.08 CATCH/HOUR: 1086.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	976.00	6210	89.86	602
Scorpaenomorpha regalis	52.00	54	4.79	601
Opisthonema oglinum	16.00	96	1.47	
Cynoscion leirarchus	11.00	16	1.01	
Dasyatis gajskesi	10.00	2	0.99	
Microgogonias furnieri	6.20	14	0.57	
Lutjanus synagris	5.20	6	0.48	
Elops saurus	4.00	2	0.37	
Trichiurus lepturus	1.60	2	0.15	
Sphyrna guachancho	1.40	2	0.13	
Echeneis naucrates	1.00	2	0.09	
Caranx hippos	0.80	2	0.07	
Penaeus notialis	0.16	2	0.01	
Total	1086.16		99.99	

PROJECT STATION: 246
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1130 Long W 7153
 TIME : 10:40 11:10 30 (min) Purpose code: 3
 LOG :5399.80 5401.00 1.20 Area code : 3
 FDEPTH: 10 13 GearCond.code:
 BDEPTH: 10 13 Validity code:
 Towing dir: 50° Wire out: 75 m Speed: 22 kn*10
 Sorted: 14 Kg Total catch: 14.55 CATCH/HOUR: 29.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachinotus falcatus	9.80	6	33.60	
Calamus penna	6.80	14	23.37	
Alectis ciliaris	3.00	2	10.31	
Lolliguncula brevis	2.50	16	8.59	
Chloroscombrus chrysurus	2.40	2	8.25	
Selene vomer	2.00	2	6.87	
Loligo pealei	1.80	94	6.19	
Trichiurus lepturus	0.80	2	2.75	
Total	29.10		100.01	

PROJECT STATION: 247
 DATE: 2/ 3/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 7140
 TIME : 12:40 13:10 30 (min) Purpose code: 3
 LOG :5414.00 5415.40 1.40 Area code : 3
 FDEPTH: 14 19 GearCond.code:
 BDEPTH: 14 19 Validity code:
 Towing dir: 85° Wire out: 100 m Speed: 27 kn*10
 Sorted: 47 Kg Total catch: 47.48 CATCH/HOUR: 94.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	47.60	164	50.13	603
Selene vomer	29.40	38	30.96	
Scorpaenomorpha regalis	4.80	4	5.05	
Calamus penna	4.60	6	4.84	
Lolliguncula brevis	3.20	654	3.37	
Trichiurus lepturus	2.20	4	2.32	
Chloroscombrus chrysurus	1.60	10	1.68	
Rachycentron canadus	1.00	2	1.05	
Opisthonema oglinum	0.30	4	0.32	
Chloroscombrus chrysurus	0.20	106	0.21	
Lagocephalus laevigatus	0.04	2	0.04	
Anchoa lyolepis	0.02	18	0.02	
Anchoviella sp	0.00	6		
Opisthonema oglinum	0.00	4		
Loligo plei	0.00	2		
Eucinostomus sp	0.00	2		
Total	94.96		99.99	

DATE: 2/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 248
 start stop duration POSITION:Lat N 1130
 Long W 7132
 TIME : 14:25 14:55 30 (min) Purpose code: 3
 LOG : 5425.00 5427.50 1.70 Area code : 3
 FDEPTH: 20 20 GearCond.code:
 BDEPTH: 20 20 Validity code:
 Towing dir: 167° Wire out: 100 m Speed: 30 kn*10

Sorted: 11 Kg Total catch: 11.75 CATCH/HOUR: 23.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Scomberomorus regalis</i>	17.70	14	75.32	604
<i>Chloroscombrus chrysurus</i>	5.00	30	21.28	
<i>Opiasthonna oglinum</i>	0.80	4	3.40	
Total	23.50		100.00	

DATE: 2/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 249
 start stop duration POSITION:Lat N 1137
 Long W 7127
 TIME : 16:40 17:10 30 (min) Purpose code: 3
 LOG : 5442.90 5444.10 1.20 Area code : 3
 FDEPTH: 24 23 GearCond.code:
 BDEPTH: 24 23 Validity code:
 Towing dir: 18° Wire out: 75 m Speed: 24 kn*10

Sorted: 9 Kg Total catch: 9.00 CATCH/HOUR: 18.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Scomberomorus regalis</i>	15.60	8	86.67	605
<i>Opiasthonna oglinum</i>	2.40	10	13.33	
Total	18.00		100.00	

DATE: 2/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 250
 start stop duration POSITION:Lat N 1135
 Long W 7123
 TIME : 18:35 19:05 30 (min) Purpose code: 3
 LOG : 5456.50 5457.70 1.20 Area code : 3
 FDEPTH: 20 20 GearCond.code:
 BDEPTH: 20 20 Validity code:
 Towing dir: 217° Wire out: 100 m Speed: 25 kn*10

Sorted: 57 Kg Total catch: 58.15 CATCH/HOUR: 116.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Microgogonias furnieri</i>	30.00	140	25.80	607
<i>RHINOGRATIDE</i>	19.00	2	16.34	
<i>Chloroscombrus chrysurus</i>	16.40	212	14.10	
<i>Chirocentron bleekarianus</i>	12.80		11.01	
<i>Trichurus lepturus</i>	10.40	20	8.94	
<i>Opiasthonna oglinum</i>	4.60	66	3.96	
<i>Lycengraulis grossidens</i>	3.20	96	2.75	
<i>Harengula jaguana</i>	3.20	240	2.75	
<i>Lolliguncula brevis</i>	3.20	640	2.75	
<i>Pellona harroweri</i>	3.20	816	2.75	
<i>Trichurus lepturus</i>	3.20	816	2.75	
<i>Cynoscion acoupa</i>	2.40	100	2.06	606
<i>Synodus foetens</i>	1.80	20	1.55	
<i>Peprilus paru</i>	1.00	4	0.86	
<i>Cynoscion leiarchus</i>	1.00	6	0.86	
<i>Pennaeus notialis</i>	0.40	30	0.34	
<i>Isopisthus parvipinnis</i>	0.20	12	0.17	
<i>Pennaeus schmitti</i>	0.20	10	0.17	
<i>Cynoscion jamaicensis</i>	0.10	2	0.09	
<i>Selene sp</i>	0.00	176		
<i>Macrodon ancylodon</i>	0.00	82		
Total	116.30		100.00	

DATE: 2/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 251
 start stop duration POSITION:Lat N 1136
 Long W 7111
 TIME : 21:00 21:30 30 (min) Purpose code: 1
 LOG : 5473.90 5475.40 1.50 Area code : 3
 FDEPTH: 15 16 GearCond.code:
 BDEPTH: 15 16 Validity code:
 Towing dir: 327° Wire out: 100 m Speed: 20 kn*10

Sorted: 21 Kg Total catch: 42.40 CATCH/HOUR: 84.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Microgogonias furnieri</i>	43.60	120	51.42	
<i>Trichurus lepturus</i>	7.20	600	8.49	
<i>Anchoa sp</i>	6.00	432	7.08	
<i>Chirocentron bleekarianus</i>	6.00	948	7.08	
<i>Chloroscombrus chrysurus</i>	5.60	72	6.60	
<i>Chaetodipterus faber</i>	5.20	4	6.13	
<i>Pellona harroweri</i>	3.60	152	4.25	
<i>Opiasthonna oglinum</i>	2.00	24	2.36	
<i>Macrodon ancylodon</i>	1.80	116	2.12	
<i>Cynoscion acoupa</i>	1.60	64	1.89	
<i>Peprilus paru</i>	1.20	24	1.49	
<i>Lolliguncula brevis</i>	0.60	140	0.71	
<i>Pennaeus notialis</i>	0.40	92	0.47	
<i>Sphyrna tiburo</i>	0.00	4		
<i>Porichthys sp</i>	0.00	4		
<i>Haemulon boschmae</i>	0.00	4		
<i>Lycengraulis grossidens</i>	0.00	8		
<i>Selene sp</i>	0.00	36		
<i>Scomberomorus cavalla</i>	0.00	44		
Total	84.80		100.02	

DATE: 3/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 252
 start stop duration POSITION:Lat N 1149
 Long W 7022
 TIME : 11:30 12:00 30 (min) Purpose code: 3
 LOG : 5580.00 5581.40 1.40 Area code : 3
 FDEPTH: 44 48 GearCond.code:
 BDEPTH: 44 48 Validity code:
 Towing dir: 274° Wire out: 200 m Speed: 25 kn*10

Sorted: 16 Kg Total catch: 435.09 CATCH/HOUR: 870.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Engraulis eurystole</i>	707.20	66742	81.27	608
<i>Scomber japonicus</i>	83.20	4576	9.56	
<i>Anchoviella sp</i>	26.00	2444	2.99	
<i>Loligo plei</i>	23.40	988	2.69	
<i>Sarda sarda</i>	12.20	90	1.40	609
<i>Pogonius saltatrix</i>	3.20	4	0.37	
<i>Orthopristis ruber</i>	3.00	2	0.34	
<i>Trichurus lepturus</i>	2.90	14	0.33	
<i>Sardinella aurita</i>	2.60	208	0.30	
<i>Chloroscombrus chrysurus</i>	2.20	12	0.25	
<i>Cynoscion jamaicensis</i>	1.40	6	0.16	
<i>Loligo pealei</i>	1.04	468	0.12	
<i>Sphyrna picudilla</i>	1.00	4	0.11	
<i>Synodus foetens</i>	0.80	4	0.09	
<i>Peprilus paru</i>	0.04	2		
<i>Etrumeus teres</i>	0.00	104		
Total	870.18		99.98	

DATE: 3/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 253
 start stop duration POSITION:Lat N 1151
 Long W 7028
 TIME : 13:00 13:30 30 (min) Purpose code: 3
 LOG : 5588.40 5589.30 0.90 Area code : 3
 FDEPTH: 52 49 GearCond.code:
 BDEPTH: 52 49 Validity code:
 Towing dir: 49° Wire out: 200 m Speed: 21 kn*10

Sorted: 32 Kg Total catch: 64.66 CATCH/HOUR: 129.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Peprilus paru</i>	44.40	160	34.33	611
<i>Anchoa hepsetus</i>	30.40	2874	23.51	
<i>Loligo plei</i>	26.40	1042	20.41	610
<i>Trichurus lepturus</i>	10.40	388	8.04	
<i>Synodus foetens</i>	6.40	36	4.95	
<i>Scomberomorus cavalla</i>	3.60	24	2.78	
<i>Cynoscion jamaicensis</i>	3.60	4	2.78	
<i>Loligo pealei</i>	2.80	196	2.17	612
<i>Orthopristis ruber</i>	0.80	4	0.62	
<i>Ariomma bondi</i>	0.40	12	0.31	
<i>Scomber japonicus</i>	0.12	24	0.09	
<i>Haemulon aurolineatum</i>	0.00	4		
<i>Lagocephalus laevigatus</i>	0.00	4		
Total	129.32		99.99	

DATE: 3/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 254
 start stop duration POSITION:Lat N 1156
 Long W 7028
 TIME : 14:55 15:25 30 (min) Purpose code: 3
 LOG : 5601.00 5602.40 1.40 Area code : 3
 FDEPTH: 52 54 GearCond.code:
 BDEPTH: 52 54 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 24 kn*10

Sorted: 51 Kg Total catch: 51.80 CATCH/HOUR: 103.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Loligo sp</i>	52.00	2254	50.19	
<i>Peprilus paru</i>	17.20	62	16.60	
<i>Prisacanthus arenatus</i>	10.20	68	9.85	
<i>Chloroscombrus chrysurus</i>	8.20	56	7.92	
<i>Trichurus lepturus</i>	6.00	516	5.79	
<i>Synodus foetens</i>	2.20	18	2.12	
<i>Lagocephalus laevigatus</i>	1.60	2	1.54	
<i>Sphyrna picudilla</i>	1.40	2	1.35	
<i>Orthopristis ruber</i>	1.20	4	1.16	
<i>Scomber japonicus</i>	1.00	48	0.97	
<i>Sarda sarda</i>	0.80	8	0.77	
<i>Rhomboplites aurorubens</i>	0.60	4	0.58	
<i>Pennaeus brasiliensis</i>	0.40	10	0.39	613
<i>Selar crumenophthalmus</i>	0.30	6	0.29	
<i>Etrumeus teres</i>	0.20	10	0.19	
<i>Ariomma bondi</i>	0.20	16	0.19	
<i>Eugerres sp</i>	0.10	2	0.10	
<i>Trachurus lathami</i>	0.00	2		
<i>Upeneus parvus</i>	0.00	2		
<i>Diodon sp.</i>	0.00	4		
Total	103.60		100.00	

DATE: 3/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 255
 start stop duration POSITION:Lat N 1200
 Long W 7042
 TIME : 17:20 17:50 30 (min) Purpose code: 3
 LOG : 5618.20 5619.50 1.30 Area code : 3
 FDEPTH: 59 59 GearCond.code:
 BDEPTH: 59 59 Validity code:
 Towing dir: 265° Wire out: 250 m Speed: 24 kn*10

Sorted: 45 Kg Total catch: 45.20 CATCH/HOUR: 90.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Loligo plei</i>	50.00	1970	55.21	614
<i>Loligo pealei</i>	16.00	716	17.67	617
<i>Peprilus paru</i>	12.00	46	13.25	
<i>Trichurus lepturus</i>	3.00	178	3.31	
<i>Aluterus monoceros</i>	2.20	2	2.43	
<i>Prisacanthus arenatus</i>	2.00	8	2.21	
<i>Synodus foetens</i>	1.60	10	1.77	
<i>Chloroscombrus chrysurus</i>	1.60	8	1.77	
<i>Pecten sp</i>	0.60	62	0.66	
<i>Sphyrna picudilla</i>	0.60	4	0.66	
<i>Ariomma bondi</i>	0.40	8	0.44	
<i>Scomberomorus cavalla</i>	0.20	2	0.22	
<i>Sarda sarda</i>	0.20	30	0.22	
<i>Scomber japonicus</i>	0.06	4	0.07	
<i>Pennaeus notialis</i>	0.06	6	0.07	615
<i>Pennaeus brasiliensis</i>	0.04	2	0.04	616
<i>Lagocephalus laevigatus</i>	0.00	2		
<i>Diplectrum sp</i>	0.00	2		
<i>Selar crumenophthalmus</i>	0.00	2		
<i>Epinephelus niveatus</i>	0.00	2		
<i>Diodon sp.</i>	0.00	4		
Total	90.56		100.00	

PROJECT STATION: 256
 DATE: 3/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1203 Long W 7024
 TIME : 20:25 start stop duration Purpose code: 1
 LOG : 5642.00 5643.10 1.10 Area code : 3
 FDEPTH: 49 45 GearCond.code:
 BDEPTH: 49 45 Validity code:
 Towing dir: 90° Wire out: 200 m Speed: 23 kn*10
 Sorted: 27 Kg Total catch: 102.08 CATCH/HOUR: 204.16

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Synodus foetens	58.80	5978	28.80
Upeneus parvus	36.00	3960	17.63
Eucinostomus sp	25.20	550	12.34
Pristipomoides macrophthalms	13.20	600	6.47
Synodus foetens	13.20	152	6.47
Trachurus lathami	9.90	98	4.85
Serranus flaviventris	8.40	312	4.11
Priacanthus arenatus	6.60	26	3.23
Saurida sp	6.00	528	2.94
Haemulon boschmae	4.80	240	2.35
Sphyræna picudilla	4.20	14	2.06
Orthopristis ruber	3.30	18	1.62
Loligo plei	2.40	48	1.18
Penaeus brasiliensis	2.20	76	1.08
Rhomboplites aurorubens	1.80	14	0.88
Lutjanus synagris	1.40	6	0.69
Loligo pealei	1.20	28	0.59
Diplectrum radiale	1.20	84	0.59
Prionotus stearnsi	1.20	276	0.59
Haemulon steindachneri	1.00	18	0.49
Lepophidium sp	0.60	108	0.29
Penaeus notialis	0.60	18	0.29
Priacanthus arenatus	0.48	48	0.24
Scomber japonicus	0.36	24	0.18
Porichthys sp	0.12	60	0.06
Citharichthys sp	0.00	12	
Fistularia tabacaria	0.00	24	
Monacanthus sp	0.00	24	
BREGMACROTIDAE	0.00	108	
Total	204.16	100.02	

PROJECT STATION: 257
 DATE: 3/ 3/88 GEAR TYPE: PT No:2 POSITION: Lat N 1209 Long W 7021
 TIME : 22:05 start stop duration Purpose code: 1
 LOG : 5650.50 5651.00 1.30 Area code : 3
 FDEPTH: 15 15 GearCond.code:
 BDEPTH: 51 56 Validity code:
 Towing dir: 209° Wire out: 75 m Speed: 27 kn*10
 Sorted: 8 Kg Total catch: 42.90 CATCH/HOUR: 85.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Scomber japonicus	34.40	1034	40.09
Anchoa hepsetus	20.00	1034	23.31
Sarda sarda	13.00	72	15.15
Engraulis eurystole	8.80	480	10.26
Haemulon boschmae	2.40	54	5.59
Trachurus lathami	2.40	72	2.80
Scomber japonicus	0.80	104	0.93
Monacanthus sp	0.60	4	0.70
Decapterus punctatus	0.40	8	0.47
Loligo plei	0.20	2	0.23
Diodon sp.	0.00	8	
Total	85.80	100.00	

PROJECT STATION: 258
 DATE: 3/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1209 Long W 7021
 TIME : 23:15 start stop duration Purpose code: 1
 LOG : 5654.90 5656.10 1.20 Area code : 3
 FDEPTH: 55 61 GearCond.code:
 BDEPTH: 55 61 Validity code:
 Towing dir: 270° Wire out: 250 m Speed: 23 kn*10
 Sorted: 10 Kg Total catch: 164.90 CATCH/HOUR: 329.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Priacanthus arenatus	76.80	864	23.29
Upeneus parvus	51.20	392	15.52
Synodus foetens	51.20	1472	15.52
Prionotus punctatus	28.80	128	8.73
Prionotus stearnsi	28.80	928	8.73
Saurida sp	25.60	3040	7.76
Eucinostomus sp	22.40	640	6.79
Trachurus lathami	19.20	704	5.82
Loligo plei	9.60	96	2.91
Haemulon boschmae	9.60	96	2.91
Serranus atrorhynchus	1.60	160	0.49
Decapterus macrallus	1.60	64	0.49
Penaeus brasiliensis	0.96	32	0.29
Ctenosciaena gracilicirrus	0.32	32	0.10
Diplectrum radiale	0.30	32	0.09
Lepophidium sp	0.20	4	0.06
Penaeus notialis	0.00	32	
Bothus sp	0.00	32	
Paruques sp	0.00	32	
Porichthys sp	0.00	32	
Monacanthus sp	0.00	32	
Total	329.78	99.99	

PROJECT STATION: 259
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1209 Long W 7042
 TIME : 01:50 start stop duration Purpose code: 1
 LOG : 5674.00 5675.00 1.00 Area code : 3
 FDEPTH: 56 50 GearCond.code:
 BDEPTH: 56 50 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 19 kn*10
 Sorted: 8 Kg Total catch: 144.50 CATCH/HOUR: 289.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Upeneus parvus	62.00	620	21.45
Lutjanus synagris	34.00	68	11.76
Loligo plei	24.00	460	8.30
Raja sp	21.00	2	7.27
Eucinostomus sp	20.00	490	6.92
Ocyurus chrysurus	19.00	16	6.78
Lutjanus analis	18.00	14	6.23
Priacanthus arenatus	18.00	32	4.15
Rhomboplites aurorubens	11.60	60	4.01
Haemulon boschmae	10.00	540	3.46
Anchoa hepsetus	8.00	660	2.77
Decapterus punctatus	6.00	120	2.08
Pagrus pagrus	4.80	10	1.66
Orthopristis ruber	4.20	34	1.45
Haemulon steindachneri	4.00	340	1.38
Dactylopterus volitans	4.00	40	1.38
Haemulon striatum	4.00	80	1.38
Loligo pealei	3.00	100	1.04
Chaetodontopoma faber	3.00	2	1.04
Acanthostracion polygonos	3.00	2	1.04
Trachurus lathami	3.00	344	1.04
Calamus pennatula	2.80	8	0.97
Sphyræna picudilla	2.20	10	0.76
Synodus sp	1.00	140	0.35
Holocentrus rufus	1.00	20	0.35
Scomber japonicus	1.00	100	0.35
Acanthostracion quadricornis	0.60	2	0.21
Diodon sp.	0.60	2	0.21
Ctenosciaena gracilicirrus	0.40	20	0.14
Haemulon chrysargyreum	0.20	20	0.07
Penaeus brasiliensis	0.00	40	
Rhomboplites aurorubens	0.00	60	
Pristipomoides macrophthalms	0.00	40	
Total	289.00	100.00	

PROJECT STATION: 260
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1158 Long W 7051
 TIME : 04:00 start stop duration Purpose code: 1
 LOG : 5680.00 5690.10 1.30 Area code : 5
 FDEPTH: 54 51 GearCond.code:
 BDEPTH: 54 51 Validity code:
 Towing dir: 230° Wire out: 250 m Speed: 20 kn*10
 Sorted: 6 Kg Total catch: 64.40 CATCH/HOUR: 128.96

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Anchoa lyolepis	32.00	8000	24.81
SYNODONTIDAE	27.20	20	21.09
Synodus foetens	20.80	640	16.13
Pristipomoides macrophthalms	8.00	2400	6.20
Chirocentron bleekeri	8.00	2304	6.20
Dactylopterus volitans	5.20	16	4.03
Penaeus subtilis	4.20	188	3.26
Peprilus paru	4.00	10	3.10
Loligo plei	3.20	224	2.48
Loligo sp	3.20	28	2.48
Cynoscion acoupa	2.40	2	1.86
Microgogonias furnieri	2.40	2	1.86
Lepophidium sp	1.60	48	1.24
Sphyræna guachancho	1.60	2	1.24
Aluterus monoceros	1.40	2	1.09
Trichurus lepturus	1.20	4	0.93
Penaeus notialis	1.20	34	0.93
Upeneus parvus	0.80	320	0.62
Sphyræna picudilla	0.40	2	0.21
Diplectrum radiale	0.16	64	0.12
SEPIOLIDAE	0.00	288	
COBIIDAE	0.00	00	
Engraulis eurystole	0.00	48	
Prionotus punctatus	0.00	160	
Bregmaceros sp.	0.00	640	
Lonchopisthus sp	0.00	64	
Lonchopisthus bigmani	0.00	32	
Scomber japonicus	0.00	16	
Porichthys sp	0.00	144	
Eucinostomus sp	0.00	16	
Epinephelus flavolimbatus	0.00	2	
Penaeus brasiliensis	0.00	4	
Total	128.96	99.98	

PROJECT STATION: 261
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1156 Long W 7105
 TIME : 06:30 start stop duration Purpose code: 3
 LOG : 5705.90 5706.90 1.00 Area code : 5
 FDEPTH: 12 12 GearCond.code:
 BDEPTH: 12 12 Validity code:
 Towing dir: 270° Wire out: 50 m Speed: 19 kn*10
 Sorted: 18 Kg Total catch: 48.11 CATCH/HOUR: 96.22

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Xiphopenaeus kroyeri	27.60	12512	28.68
Bairdiella sp	12.00	12	12.47
Microgogonias furnieri	9.28	16	9.64
Isopisthus parvipinnis	8.56	564	8.90
Trichurus lepturus	8.00	28	8.40
Pellona harroweri	6.00	1236	6.24
Scomberomorus regalis	5.40	4	5.61
Anchoa spiniifera	3.92	238	4.07
Chirocentron bleekeri	3.60	636	3.74
Peprilus paru	2.70	6	2.81
Macrodon ancylodon	2.40	120	2.49
Prionotus punctatus	1.60	4	1.66
Opisthoneura oglinum	1.50	12	1.56
Bairdiella sp	1.24	40	1.29
Cynoscion virescens	0.60	12	0.62
Saurida sp	0.48	72	0.50
Loliguncula brevis	0.36	108	0.37
Haemulon jaguana	0.36	24	0.37
Larimus breviceps	0.30	6	0.31
Lycengraulis grossidons	0.16	10	0.17
Penaeus schmitti	0.08	2	0.08
Peprilus paru	0.00	60	
Selene sp	0.00	12	
Odontognathus compressus	0.00	36	
Nebris microps	0.00	48	
Anchoa lyolepis	0.00	96	
Larimus breviceps	0.00	48	
Total	96.22	99.98	

PROJECT STATION: 262
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1200
 start stop duration Longitude W 7107
 TIME : 08:35 09:05 30 (min) Purpose code: 3
 LOG :5718.80 5720.10 1.30 Area code : 5
 FDEPTH: 11 11 GearCond.code:
 BDEPTH: 11 11 Validity code:
 Towing dir: 49° Wire out: 75 m Speed: 20 kn*10

Sorted: 15 Kg Total catch: 62.29 CATCH/HOUR: 124.58

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Xiphonaneus kroyeri	35.20	28.25	
Dasyatis guttata	20.40	16.38	
Isopisthus parvipinnis	16.80	13.49	
Bairdiella sp	10.00	8.07	
Anchoa spinifer	10.00	8.03	
Macrodon ancylodon	7.20	5.78	
Pellona harroweri	6.40	5.14	
Nebria microps	4.00	3.21	
Trichurus lepturus	4.00	3.21	
Chirocentrodon bleekorianus	3.20	2.57	
Cynoscion vireosens	2.64	2.12	
Micropononias furnieri	1.20	0.96	
Cynoscion jamaicensis	0.64	0.51	
Cynoscion leiarochus	0.60	0.48	
Penaeus schmitti	0.50	0.40	633
Larimus breviceps	0.40	0.32	
Centropomus ensiferus	0.40	0.32	
Penaeus notialis	0.20	0.16	634
Porichthys sp	0.00		
Larimus breviceps	0.00		
Bagra bagra	0.00		
Peprilus paru	0.00		
Lolliguncula brevis	0.00		
Trichurus lepturus	0.00		
UNIDENTIFIED FISH	0.00		
Total	124.58	100.00	

PROJECT STATION: 263
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1209
 start stop duration Longitude W 7100
 TIME : 11:50 12:20 30 (min) Purpose code: 3
 LOG :5744.20 5745.50 1.30 Area code : 5
 FDEPTH: 51 46 GearCond.code:
 BDEPTH: 51 46 Validity code:
 Towing dir: 271° Wire out: 200 m Speed: 25 kn*10

Sorted: 8 Kg Total catch: 69.95 CATCH/HOUR: 139.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Harengula sp	26.40	18.87	
Chloroscombrus chrysurus	23.00	16.44	639
Peprilus paru	20.00	14.30	638
Chloroscombrus chrysurus	15.60	11.15	
Sphyræna picudilla	15.00	10.72	636
Scorpaenomorbus regalis	10.20	7.29	635
Opisthonema oglinus	8.60	6.15	
Micropononias furnieri	2.60	1.86	
Lycengraulis grossidens	2.40	1.72	
Scorpaenomorbus brasiliensis	2.20	1.57	
Cynoscion acoupa	2.00	1.43	
Sphyræna ouachano	2.00	1.43	637
Small squids unident.	1.80	1.29	
Scorpaenomorbus japonicus	1.80	1.29	
Chirocentrodon bleekorianus	1.50	1.07	
Anchoa hepsetus	1.20	0.86	
Salene setapinnis	1.20	0.86	
Penaeus subtilis	1.00	0.71	
Priacanthus arenatus	0.80	0.57	
Loligo plei	0.60	0.43	
Trichurus lepturus	0.00		
Lutjanus synagris	0.00		
Salene sp	0.00		
Selar crumenophthalmus	0.00		
Total	139.90	100.01	

PROJECT STATION: 264
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1215
 start stop duration Longitude W 7054
 TIME : 14:30 15:00 30 (min) Purpose code: 3
 LOG :5760.50 5761.70 1.20 Area code : 5
 FDEPTH: 44 44 GearCond.code:
 BDEPTH: 44 44 Validity code:
 Towing dir: 60° Wire out: 200 m Speed: 26 kn*10

Sorted: 24 Kg Total catch: 137.20 CATCH/HOUR: 274.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Loligo pealei	135.20	49.27	640
Priacanthus cruentatus	72.00	26.24	
Scorpaenomorbus japonicus	32.00	11.66	641
Haemulon boschmae	16.00	5.83	
Decapterus macarellus	6.00	2.19	
Rhomboplites aurorubens	6.00	2.19	
Sardinella aurita	5.60	2.04	
Decapterus tabl	1.00	0.36	
Decapterus punctatus	0.40	0.15	
Eucinostomus sp	0.20	0.07	
Aricomma bondi	0.00		
Trachurus lathami	0.00		
Upeneus parvus	0.00		
Selar crumenophthalmus	0.00		
Total	274.40	100.00	

PROJECT STATION: 265
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1218
 start stop duration Longitude W 7103
 TIME : 16:35 17:05 30 (min) Purpose code: 3
 LOG :5773.70 5775.00 1.30 Area code : 5
 FDEPTH: 34 33 GearCond.code:
 BDEPTH: 34 33 Validity code:
 Towing dir: 275° Wire out: 150 m Speed: 23 kn*10

Sorted: 107 Kg Total catch: 107.30 CATCH/HOUR: 214.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Conodon nobilis	72.00	33.55	643
Chloroscombrus chrysurus	50.00	23.30	644
Opisthonema oglinus	37.20	17.33	642
Sardinella aurita	14.60	6.80	
Orthopristis ruber	10.40	4.85	645
Lutjanus synagris	6.20	2.89	
Sphyræna picudilla	5.20	2.42	646
Haemulon steindachneri	5.20	2.42	
Balistes capricus	2.60	1.21	
Upeneus parvus	2.40	1.12	
Mustelus higmani	2.00	0.93	
Dasyatis americana	1.80	0.84	
Pseudocaranx dentex	1.40	0.65	
Eucinostomus sp	1.20	0.56	
Gymnothorax ocellatus	1.00	0.47	
Priacanthus arenatus	0.80	0.37	
Scorpaenomorbus japonicus	0.60	0.28	
Total	214.60	99.99	

PROJECT STATION: 1227
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1227
 start stop duration Longitude W 7106
 TIME : 19:10 19:40 30 (min) Purpose code: 3
 LOG :5789.10 5789.80 0.70 Area code : 5
 FDEPTH: 69 62 GearCond.code:
 BDEPTH: 69 62 Validity code:
 Towing dir: 40° Wire out: 250 m Speed: 10 kn*10

Sorted: 19 Kg Total catch: 72.86 CATCH/HOUR: 145.72

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	27.80	17.02	
Lutjanus synagris	17.60	12.00	648
Pristipomoides macrophthalmus	15.60	10.71	
Loligo plei	12.00	8.23	650
Priacanthus arenatus	11.60	7.96	
Eucinostomus sp	7.20	4.94	
Sphyræna picudilla	5.20	3.57	
Calamus bajonado	5.00	3.43	
Lutjanus analis	4.20	2.88	647
Loligo pealei	4.00	2.74	
Pecten sp	3.20	2.20	
Saurida sp	3.20	2.20	
Synodus foetens	3.20	2.20	
Haemulon aurolineatum	3.20	2.20	
Pagrus pagrus	3.20	2.20	
Haemulon steindachneri	2.80	1.92	
Trachurus lathami	2.40	1.65	
Caulolatilus cyanops	2.40	1.65	
Synodus sp	2.40	1.65	
Conodon nobilis	2.40	1.65	
Lutjanus purpureus	2.00	1.37	
Rhomboplites aurorubens	1.80	1.24	
Penaeus brasiliensis	1.40	0.96	649
Fistularia petimba	1.20	0.82	
Scorpaenomorbus japonicus	0.80	0.55	
Sarda sarda	0.80	0.55	
Dactylopterus volitans	0.80	0.55	
Prionotus stearnsi	0.40	0.27	
Calamus sp	0.40	0.27	
Calamus cervigoni	0.20	0.14	
Penaeus notialis	0.20	0.14	
Epinephelus niveatus	0.12	0.08	
Porichthys sp	0.00		
Myripristis jacobus	0.00		
Priacanthus arenatus	0.00		
Rhomboplites aurorubens	0.00		
Total	145.72	100.02	

PROJECT STATION: 267
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1236
 start stop duration Longitude W 7102
 TIME : 21:05 21:35 30 (min) Purpose code: 1
 LOG :5798.80 5800.10 1.30 Area code : 5
 FDEPTH: 73 73 GearCond.code:
 BDEPTH: 73 73 Validity code:
 Towing dir: 46° Wire out: 250 m Speed: 22 kn*10

Sorted: 13 Kg Total catch: 70.94 CATCH/HOUR: 141.88

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	64.40	45.39	
Pristipomoides macrophthalmus	11.20	7.89	
Loligo plei	8.00	5.64	
Saurida sp	7.00	4.93	
Loligo pealei	6.40	4.51	
MYCTOPHIDAE	5.60	3.95	
Neopinnula orientalis	5.60	3.95	
Synodus foetens	5.60	3.95	
Trachurus lathami	4.20	2.96	
Haemulon boschmae	4.20	2.96	
Scorpaenomorbus japonicus	4.20	2.96	
Synagrops bellus	4.20	2.96	
Epigonus sp	2.80	1.97	
Priacanthus arenatus	2.40	1.69	
Haemulon striatum	1.40	0.99	
Engraulis surystole	1.40	0.99	
Penaeus brasiliensis	1.20	0.85	
Sphoeroides sp	0.70	0.49	
Rhomboplites aurorubens	0.56	0.39	
Eucinostomus sp	0.42	0.30	
Fistularia tabacaria	0.40	0.28	
FISTULARIIDAE	0.00		
Porichthys sp	0.00		
Etrumeus teres	0.00		
Total	141.88	100.00	

PROJECT STATION: 268
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1235
 start stop duration Longitude W 7106
 TIME : 22:15 23:20 30 (min) Purpose code: 1
 LOG :5808.80 5809.70 0.90 Area code : 5
 FDEPTH: 70 70 GearCond.code:
 BDEPTH: 70 70 Validity code:
 Towing dir: 210° Wire out: 250 m Speed: 18 kn*10

Sorted: 11 Kg Total catch: 65.67 CATCH/HOUR: 131.34

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	66.80	66.09	
Engraulis surystole	8.40	6.40	
Loligo plei	6.40	4.87	
Priacanthus arenatus	6.00	4.57	
MYCTOPHIDAE	5.60	4.26	
Scorpaenomorbus japonicus	4.20	3.20	
Trachurus lathami	4.20	3.20	
Mustelus canis	3.20	2.44	
Saurida sp	2.80	2.13	
Loligo pealei	2.20	1.68	
Penaeus brasiliensis	0.60	0.46	
Pristipomoides macrophthalmus	0.20	0.21	
Priacanthus arenatus	0.20	0.21	
Porichthys sp	0.20	0.21	
Penaeus notialis	0.10	0.08	
Total	131.34	100.01	

PROJECT STATION: 269
 DATE: 4/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1226
 start stop duration Long W 7114
 TIME : 23:30 24:00 30 (min) Purpose code: 1
 LOG : 5818.20 5819.10 0.90 Area code : 5
 FDEPTH: 52 49 GearCond.code: 3
 BDEPTH: 52 49 Validity code: 9
 Towing dir: 225° Wire out: 200 m Speed: 14 kn*10

Sorted: 7 Kg Total catch: 50.29 CATCH/HOUR: 100.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus sp	16.80	1064	16.70	
Chirocentron bleekermani	13.20	2640	13.12	
Trichiurus lepturus	8.40	144	8.35	
Small squids unident.	7.20		7.16	
Chloroscombrus chrysurus	7.20	204	7.16	
Pristipomoides macrophthalmus	7.20	2520	7.16	
Saurida sp	7.20	816	7.16	
Selene sp	7.20	1728	7.16	
Lutjanus synagris	6.20	10	6.16	
Epigonus sp	3.60	1488	3.50	
Pallona harroweri	3.60	30	3.58	
Penaeus subtilis	2.80	80	2.78	652
Lutjanus purpureus	2.60	2	2.59	
Opisthonema oglinus	2.40	864	2.39	
Aluterus monoceros	1.20	2	1.19	
Priacanthus arenatus	1.20	4	1.19	
Penaeus notialis	1.20	36	1.19	651
Dactylopterus volitans	0.60	2	0.60	
Chaetodipterus fabor	0.40	2	0.40	
Lepophidium sp	0.36	84	0.36	
Xiphopenaus kroyeri	0.02	18	0.02	
Serranus flaviventer	0.00	36		
Engraulis eurystole	0.00	156		
Upeneus parvus	0.00	276		
FISTULARIIDAE	0.00	48		
Total	100.58		100.00	

PROJECT STATION: 270
 DATE: 5/ 3/88 GEAR TYPE: PT No:2 POSITION:Lat N 1233
 start stop duration Long W 7125
 TIME : 05:00 05:20 20 (min) Purpose code: 1
 LOG : 5847.20 5848.00 0.80 Area code : 5
 FDEPTH: 75 30 GearCond.code: 3
 BDEPTH: 72 30 Validity code: 9
 Towing dir: 40° Wire out: 100 m Speed: 23 kn*10

Sorted: 10 Kg Total catch: 144.96 CATCH/HOUR: 434.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	112.80	66048	94.92	653
Scomber japonicus	20.16	1572	4.64	
Selar crumenophthalmus	1.20	36	0.17	
Sardinella aurita	0.72	72		
Etrumeus teres	0.00	372		
Total	434.88		100.00	

PROJECT STATION: 271
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1231
 start stop duration Long W 7127
 TIME : 06:10 06:40 30 (min) Purpose code: 3
 LOG : 5851.30 5851.90 0.60 Area code : 5
 FDEPTH: 66 66 GearCond.code: 3
 BDEPTH: 66 66 Validity code: 9
 Towing dir: 205° Wire out: 300 m Speed: 11 kn*10

Sorted: 24 Kg Total catch: 273.64 CATCH/HOUR: 547.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomber japonicus	195.20	6954	35.67	
Loligo plei	68.00	1674	12.43	657
Trachurus lathami	60.80	2104	11.11	
Lutjanus analis	60.00	10	10.96	655
Loligo pealei	48.80	2696	8.92	658
Sardinella aurita	35.20	352	6.43	
Mycteroperca bonaci	15.40	2	2.81	
Priacanthus arenatus	14.40	34	2.63	
Lutjanus synagris	13.20	22	2.41	656
Lutjanus vivanus	13.00	8	2.38	654
Decapterus macarellus	9.60	1504	1.75	
Selar crumenophthalmus	6.40	288	1.17	
Ariomma bondi	1.60	128	0.29	
Rhomboplites aurorubens	1.60	2	0.29	
Mustelus higmani	1.60	2	0.22	
Cyclopesia chittendeni	1.20	2	0.15	
Sarda sarda	0.80	2	0.06	
Etrumeus teres	0.32	32	0.03	
Pristipomoides macrophthalmus	0.16			
Loligo pealei	0.00	192		
Loligo plei	0.00	32		
Total	547.28		100.00	

PROJECT STATION: 272
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1230
 start stop duration Long W 7137
 TIME : 08:35 09:05 30 (min) Purpose code: 3
 LOG : 5867.30 5868.00 0.70 Area code : 5
 FDEPTH: 56 56 GearCond.code: 3
 BDEPTH: 56 56 Validity code: 9
 Towing dir: 230° Wire out: 250 m Speed: 10 kn*10

Sorted: 16 Kg Total catch: 186.95 CATCH/HOUR: 373.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyrna lewini	84.60	16	22.63	
Selene setapinnis	52.00	118	13.91	660
Loligo pealei	40.00	2600	10.70	
Lutjanus analis	35.60	6	9.52	661
Loligo plei	26.40	1052	7.06	
Chirocentron bleekermani	25.60	5836	6.85	
Selene vomer	25.40	30	6.79	659
Sphyrna picudilla	24.00	576	6.42	
Selar crumenophthalmus	16.00	1040	4.28	
Mycteroperca interstitialis	10.00	2	2.67	662
Scomber japonicus	8.00	1088	2.14	
Haemulon aurolineatum	7.20	88	1.93	
Carcharhinus porosus	5.60	2	1.50	
Selene setapinnis	3.60	8	0.96	
Lutjanus synagris	2.60	6	0.70	663
Rhomboplites aurorubens	1.80	8	0.48	
Decapterus macarellus	1.60	576	0.43	
Cyclopesia chittendeni	1.20	2	0.32	
Lutjanus purpureus	1.10	8	0.29	
Micropogonias furnieri	1.00	2	0.27	
Decapterus macarellus	0.60	2	0.16	
Upeneus parvus	0.00	16		
Total	373.90		100.00	

PROJECT STATION: 273
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1228
 start stop duration Long W 7146
 TIME : 10:35 11:05 30 (min) Purpose code: 3
 LOG : 5881.20 5881.90 0.70 Area code : 5
 FDEPTH: 58 68 GearCond.code: 3
 BDEPTH: 58 68 Validity code: 9
 Towing dir: 240° Wire out: 250 m Speed: 10 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
N O C A T C H	0.00			
Total				

PROJECT STATION: 274
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1228
 start stop duration Long W 7147
 TIME : 11:30 12:00 30 (min) Purpose code: 3
 LOG : 5883.00 5884.40 1.40 Area code : 5
 FDEPTH: 62 57 GearCond.code: 3
 BDEPTH: 62 57 Validity code: 9
 Towing dir: 02° Wire out: 350 m Speed: 320 kn*10

Sorted: 10 Kg Total catch: 94.81 CATCH/HOUR: 189.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo pealei	67.20	4256	35.44	
Lutjanus analis	22.20	4	11.71	664
Sphyrna lewini	20.00	6	10.55	
Carcharhinus porosus	18.00	6	9.91	
Trachurus lathami	16.00	3200	8.44	
Lutjanus synagris	11.20	18	5.91	665
Upeneus parvus	8.00	320	4.22	
Mustelus canis	6.60	2	3.40	
Haemulon boschmae	4.80	320	2.53	
Saurida sp	4.80	1168	2.53	
Selene vomer	1.90	2	1.00	
Haemulon aurolineatum	1.60	32	0.84	
Scomber japonicus	1.60	224	0.84	
Priacanthus arenatus	1.20	8	0.63	
Sphyrna picudilla	1.12	80	0.59	
Lutjanus purpureus	1.00	8	0.53	666
Dactylopterus volitans	1.00	4	0.42	
Eucinostomus sp	0.40	40	0.21	
Pristipomoides macrophthalmus	0.40	40	0.21	
Priacanthus arenatus	0.00	32		
Total	189.62		99.99	

PROJECT STATION: 275
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1225
 start stop duration Long W 7150
 TIME : 14:10 14:40 30 (min) Purpose code: 3
 LOG : 5902.50 5903.50 1.00 Area code : 5
 FDEPTH: 45 44 GearCond.code: 3
 BDEPTH: 45 44 Validity code: 9
 Towing dir: 236° Wire out: 200 m Speed: 20 kn*10

Sorted: 19 Kg Total catch: 300.20 CATCH/HOUR: 600.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo pealei	176.00	12100	29.31	
Micropogonias furnieri	120.00	200	19.99	667
Chloroscombrus chrysurus	55.00	30	9.16	
Carcharhinus porosus	47.00	18	7.83	
Trachurus lathami	44.00	7334	7.33	
Sphyrna picudilla	36.00	1760	6.00	
Sphyrna guachuco	25.00	30	4.16	
Scomber japonicus	20.00	3760	3.33	
Selene vomer	20.00	20	3.33	
Sphyrna lewini	19.00	4	3.16	
Lutjanus synagris	15.00	30	2.50	
Caranx bartholomaei	12.40	2	2.07	
Sarda sarda	6.00	200	1.00	
Priacanthus arenatus	5.00	10	0.83	
Total	600.40		100.00	

PROJECT STATION: 276
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION:Lat N 1222
 start stop duration Long W 7157
 TIME : 17:30 18:00 30 (min) Purpose code: 3
 LOG : 5928.20 5928.90 0.70 Area code : 5
 FDEPTH: 54 57 GearCond.code: 3
 BDEPTH: 54 57 Validity code: 9
 Towing dir: 280° Wire out: 250 m Speed: 17 kn*10

Sorted: 33 Kg Total catch: 176.38 CATCH/HOUR: 352.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyrna picudilla	102.00	1632	28.91	
Lutjanus synagris	55.00	86	15.59	668
Loligo plei	45.00	4556	12.76	
Loligo pealei	39.00	5572	11.06	
Priacanthus arenatus	22.40	56	6.35	671
Trachurus lathami	13.52	1352	3.83	
Decapterus macarellus	13.52	2738	3.83	
Mycteroperca bonaci	12.60	2	3.57	
Scomberomorus cavalla	10.14	136	2.87	
Lutjanus analis	8.40	2	2.38	669
Calamus sp	8.00	26	2.27	
Carcharhinus porosus	6.80	2	1.93	
Haemulon aurolineatum	5.40	78	1.53	
Rhomboplites aurorubens	5.20	30	1.47	672
Scomber japonicus	3.38	406	0.96	
Lutjanus vivanus	2.40	2	0.68	670
Pristipomoides macrophthalmus	0.00	18		
Total	352.76		99.99	

PROJECT STATION: 277
 DATE: 5/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1219 Long W 7203
 TIME : 20:10 start stop duration Purpose code: 1
 LOG : 5949.60 5950.60 30 (min) Area code : 5
 FDEPTH: 40 GearCond.code: 5
 BDEPTH: 40 56 Validity code:
 Towing dir: 291° Wire out: 250 m Speed: 21 kn*10
 Sorted: 7 Kg Total catch: 48.96 CATCH/HOUR: 97.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Microgogonias furnieri	14.40	24	14.71	
Calamus bajonado	11.20	40	11.44	
Lutjanus synagris	9.80	20	10.01	673
Pristipomoides macrophthalmus	9.60	3744	9.80	
Eucinostomus gula	9.60	258	9.80	676
Priacanthus arenatus	6.40	16	6.54	
Calamus penna	5.40	24	5.51	
Haemulon aurolineatum	4.80	126	4.90	
Upeneus parvus	3.90	156	3.90	
Haemulon boschmae	3.00	390	3.06	
Sphyræna picudilla	3.00	18	3.06	
Loligo plei	1.92	114	1.96	
Loligo pealei	1.80	204	1.84	
Lopophidium sp	1.00	96	1.84	
Penaeus notialis	1.60	50	1.63	674
Synodus fontens	1.20	180	1.23	
Decapterus sp	1.20	306	1.23	
Trachurus lathami	1.20	300	1.23	
Aluterus monoceros	1.20	2	1.23	
Sphyræna guachancho	1.00	2	1.02	
Haemulon plumieri	0.80	2	0.82	
Pseudupeneus maculatus	0.70	8	0.71	
Chloroscombrus chrysurus	0.60	12	0.61	
Apogon sp	0.60	144	0.61	
Prionotus punctatus	0.60	2	0.61	
Dactylopterus volitans	0.50	2	0.51	
Penaeus brasiliensis	0.10	2	0.10	675
Diplectrum radiale	0.00	12		
Total		97.92	99.99	

PROJECT STATION: 280
 DATE: 6/ 3/88 GEAR TYPE: PT No:2 POSITION: Lat N 1218 Long W 7219
 TIME : 03:15 start stop duration Purpose code: 1
 LOG : 5988.00 5989.30 30 (min) Area code : 5
 FDEPTH: 50 GearCond.code: 3
 BDEPTH: 69 66 Validity code: 4
 Towing dir: 110° Wire out: 150 m Speed: 24 kn*10
 Sorted: 27 Kg Total catch: 76.11 CATCH/HOUR: 152.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Etrumeus teres	48.00	16000	31.53	
Opisthonema oglinum	28.50	316	18.72	
Upeneus parvus	24.00	3696	15.77	
Sarda sarda	21.00	42	13.80	
Trachurus lathami	9.60	1968	6.31	
Scomber japonicus	9.00	52	5.91	
Scomber japonicus	8.40	200	5.52	
Small squids unident.	2.40	492	1.58	
Engraulis eurystole	0.84	468	0.55	
Sardinella aurita	0.36	12	0.24	
Seriola sp	0.12	12	0.08	
Haemulon boschmae	0.00	12		
Saurida sp	0.00	12		
ATHERINIDAE	0.00	24		
Total		152.22	100.01	

PROJECT STATION: 281
 DATE: 6/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1201 Long W 7219
 TIME : 06:50 start stop duration Purpose code: 3
 LOG : 6016.90 6018.40 1.50 Area code : 5
 FDEPTH: 15 29 GearCond.code: 3
 BDEPTH: 15 29 Validity code:
 Towing dir: 305° Wire out: 100 m Speed: 29 kn*10
 Sorted: 29 Kg Total catch: 29.92 CATCH/HOUR: 59.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Balistes capricus	44.60	120	74.53	681
Aluterus schoepfi	8.60	22	14.71	
Sardinella aurita	4.00	146	6.60	682
Scenopsis naurates	1.80	2	3.01	
Pristipomoides macrophthalmus	0.60	8	1.00	
Upeneus parvus	0.04	4	0.07	
Decapterus punctatus	0.00	2		
Trachurus lathami	0.00	2		
Total		59.84	100.00	

PROJECT STATION: 278
 DATE: 5/ 3/88 GEAR TYPE: PT No:2 POSITION: Lat N 1222 Long W 7208
 TIME : 22:45 start stop duration Purpose code: 1
 LOG : 5965.00 5966.80 1.80 Area code : 5
 FDEPTH: 45 40 GearCond.code: 5
 BDEPTH: 177 171 Validity code:
 Towing dir: 52° Wire out: 150 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 87.72 CATCH/HOUR: 150.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	86.40	3168	57.45	677
MYCTOPHIDAE	51.43	40	34.20	
Engraulis eurystole	2.47	432	1.64	
Loligo pealei	2.06	658	1.37	
Sardinella aurita	2.06	247	1.37	
Sphyræna picudilla	1.85	62	1.23	
Scomber japonicus	1.65	165	1.10	
Etrumeus teres	1.03	185	0.68	
Sarda sarda	1.03	5	0.68	
Steindachneria argenta	0.41	41	0.27	
BREGHACEOTIDAE	0.00	62		
Decapterus macarellus	0.00	144		
Neopinnacia orientalis	0.00	21		
Upeneus parvus	0.00	247		
Total		150.39	99.99	

PROJECT STATION: 282
 DATE: 6/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1201 Long W 7230
 TIME : 10:50 start stop duration Purpose code: 3
 LOG : 6050.90 6051.90 1.00 Area code : 5
 FDEPTH: 53 50 GearCond.code: 5
 BDEPTH: 53 50 Validity code:
 Towing dir: 80° Wire out: 200 m Speed: 20 kn*10
 Sorted: 7 Kg Total catch: 416.74 CATCH/HOUR: 833.48

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	364.00	24856	43.67	684
Decapterus macarellus	176.00	38454	21.21	
Lutjanus analis	89.20	20	10.70	683
Loligo plei	62.40	1976	7.49	
Haemulon boschmae	31.20	5824	3.74	
Haemulon aurolineatum	31.20	1664	3.74	
Scomberomorus cavalla	20.80	312	2.50	
Scomber japonicus	20.80	2704	2.50	
Loligo pealei	10.40	312	1.25	
Rhomboplites aurorubens	10.40	1456	1.25	
Sphyræna picudilla	5.20	208	0.62	
Pomacanthus arcuatus	3.80	2	0.46	
Pomacanthus paru	3.00	2	0.36	
Upeneus parvus	2.08	208	0.25	
Calamus penna	1.40	2	0.17	
Calamus bajonado	0.60	2	0.07	
Lutjanus synagris	0.20	2	0.02	
Selar crumenophthalmus	0.00	104		
Eucinostomus gula	0.00	104		
Total		833.48	100.00	

PROJECT STATION: 279
 DATE: 6/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1220 Long W 7206
 TIME : 09:20 start stop duration Purpose code: 1
 LOG : 5971.40 5972.60 1.20 Area code : 5
 FDEPTH: 67 61 GearCond.code: 5
 BDEPTH: 67 61 Validity code:
 Towing dir: 206° Wire out: 300 m Speed: 21 kn*10
 Sorted: 25 Kg Total catch: 105.15 CATCH/HOUR: 210.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	81.60	2332	38.80	
Upeneus parvus	32.00	1244	15.22	
Eucinostomus sp	28.00	560	13.31	
Haemulon aurolineatum	20.00	328	9.51	
Trachurus lathami	12.00	40	5.71	
Calamus pennatula	8.00	48	3.80	
Trichiurus lepturus	4.80	8	2.28	
Lutjanus synagris	4.80	8	2.28	
Sphyræna guachancho	3.20	8	1.52	
Lepophidium sp	3.20	376	1.52	
Penaeus brasiliensis	3.00	84	1.43	678
Penaeus notialis	1.40	36	0.67	679
Sphyræna picudilla	1.20	16	0.57	
Rhomboplites aurorubens	1.20	8	0.57	
Serranus flaviventris	1.04	200	0.49	
Calamus corvignoi	1.00	8	0.48	
Priacanthus arenatus	0.80	8	0.38	
Prionotus punctatus	0.80	64	0.38	
Prionotus stearnsi	0.80	144	0.38	
Opisthonema oglinum	0.80	48	0.27	
Loligo pealei	0.48	32	0.23	
Haemulon boschmae	0.32	8	0.15	
Penaeus subtilis	0.10	8	0.05	680
Porichthys sp	0.00	8		
BOTHIDAE	0.00	16		
Dactylopterus volitans	0.00	8		
Pontius sp	0.00	8		
Saurida sp	0.00	8		
Synodus fontens	0.00	16		
MYCTOPHIDAE	0.00	208		
Total		210.30	100.00	

PROJECT STATION: 283
 DATE: 6/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1202 Long W 7237
 TIME : 13:30 start stop duration Purpose code: 3
 LOG : 6071.00 6072.00 1.00 Area code : 5
 FDEPTH: 64 67 GearCond.code: 5
 BDEPTH: 64 67 Validity code:
 Towing dir: 311° Wire out: 350 m Speed: 22 kn*10
 Sorted: 7 Kg Total catch: 328.10 CATCH/HOUR: 656.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	288.00	2492	43.89	
Scomber japonicus	182.40	8928	27.80	
Trichiurus lepturus	67.20	14304	10.24	
Calamus pennatula	26.40	96	4.02	
Selar crumenophthalmus	19.20	288	2.93	
Epinephelus morio	17.20	2	2.62	
Rhomboplites aurorubens	12.00	456	1.83	
Balistes capricus	11.80	4	1.80	
Pomacanthus arcuatus	11.00	6	1.68	
Haemulon aurolineatum	9.60	240	1.46	
Pomacanthus paru	7.60	4	1.16	
Seriola fasciata	3.80	6	0.58	
Sphyræna guachancho	0.00	96		
Decapterus punctatus	0.00	96		
Total		656.20	100.01	

PROJECT STATION: 284
 DATE: 7/ 3/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106 Long W 7417
 TIME : 16:05 start stop duration Purpose code: 1
 LOG : 6240.50 6241.60 1.10 Area code : 5
 FDEPTH: 12 14 GearCond.code: 3
 BDEPTH: 12 14 Validity code: 9
 Towing dir: 280° Wire out: 50 m Speed: 23 kn*10
 Sorted: 2 Kg Total catch: 2.80 CATCH/HOUR: 5.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	2.60	70	46.43	685
Chaetodipterus faber	1.00	2	32.14	
Scomberomorus regalis	1.20	2	21.43	
Total		5.60	100.00	

DATE: 7/ 3/88 PROJECT STATION: 285
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 11073 Long W 7425
 TIME : 17:50 18:20 30 (min) Purpose code: 3
 LOG : 6251.50 6252.00 1.30 Area code : 5
 FDEPTH: 72 47 GearCond.code: 1
 BDEPTH: 72 47 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: 25 kn*10
 Sorted: 96 Kg Total catch: 96.90 CATCH/HOUR: 193.00

DATE: 9/ 3/88 PROJECT STATION: 289
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 930 Long W 7556
 TIME : 01:25 01:55 30 (min) Purpose code: 1
 LOG : 6516.50 6517.90 1.40 Area code : 5
 FDEPTH: 22 25 GearCond.code: 1
 BDEPTH: 22 25 Validity code:
 Towing dir: 296° Wire out: 100 m Speed: 29 kn*10
 Sorted: 34 Kg Total catch: 34.80 CATCH/HOUR: 69.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	73.00	40	37.67	607
Lutjanus synagris	56.00	112	28.90	688
Aluterus monoceros	16.40	20	8.46	
Selar crumenophthalmus	11.60	54	5.99	686
Rhomboplites aurorubens	8.50	90	4.39	689
Selene vomer	6.00	10	3.10	
Rhizoprionodon porosus	5.60	2	2.09	
Chaetodipterus faber	3.00	4	1.55	
Priacanthus armatus	3.00	10	1.55	
Lutjanus vivanus	2.80	12	1.44	
Lutjanus purpurus	2.60	4	1.34	
Balistes capricus	2.60	4	1.34	
Eucinostomus gula	1.00	24	0.52	
Ogcocephalus parvus	0.80	4	0.41	
Prionotus punctatus	0.40	2	0.21	
Pomadasys coecus	0.30	2	0.15	
Upeneus parvus	0.20	2	0.10	
Total	193.80		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus brasiliensis	18.60	34	26.72	697
Opisthonema oglinum	16.00	296	22.99	
Pellona harroweri	4.00	200	5.75	
Chirocentrodon bleekeri	2.40	832	3.45	
Ariopsis bonillai	2.20	24	3.16	698
Lepophidium sp	2.20	138	3.16	
Sphyræna guachancho	2.00	18	2.07	
Ctenosciaena gracilicirrus	2.00	110	2.87	
Dagra marinus	2.00	10	2.07	699
Eucinostomus sp	2.00	96	2.87	
Microgogonias furnieri	1.80	6	2.59	
Cynoscion leiarchus	1.80	2	2.59	
Anchoa sp	1.60	512	2.30	
Synodus foetens	1.40	274	2.01	
Selene vomer	1.40	4	2.01	
Polydactylus virginicus	1.40	24	2.01	
Penaeus notialis	1.00	60	1.44	701
Trichiurus lepturus	1.00	10	1.44	
Chloroscombrus chrysurus	1.00	36	1.44	
Lutjanus synagris	1.00	14	1.44	700
Loliguncula brevis	0.80	112	1.15	
Balistes capricus	0.80	6	1.15	
Porichthys sp	0.60	172	0.86	
Peprius paru	0.40	4	0.57	
Haemulon sp	0.20	2	0.29	
Diapterus rhombus	0.00	2		
Selene setapinnis	0.00	4		
Total	69.60		100.00	

DATE: 8/ 3/88 PROJECT STATION: 286
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1056 Long W 7505
 TIME : 02:15 02:45 30 (min) Purpose code: 1
 LOG : 6313.40 6314.00 1.40 Area code : 5
 FDEPTH: 13 11 GearCond.code: 1
 BDEPTH: 13 11 Validity code:
 Towing dir: 213° Wire out: 100 m Speed: 23 kn*10
 Sorted: 36 Kg Total catch: 36.00 CATCH/HOUR: 72.00

DATE: 9/ 3/88 PROJECT STATION: 290
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 932 Long W 7617
 TIME : 04:50 05:00 10 (min) Purpose code: 1
 LOG : 6544.10 6544.40 0.30 Area code : 5
 FDEPTH: 65 68 GearCond.code: 1
 BDEPTH: 65 68 Validity code:
 Towing dir: 135° Wire out: 300 m Speed: 22 kn*10
 Sorted: 8 Kg Total catch: 8.40 CATCH/HOUR: 50.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	18.00	214	25.00	691
Cynoscion virescens	17.00	80	23.61	690
Larimus breviceps	8.20	140	11.39	
Conodon nobilis	5.00	48	6.94	
Eugerres plumieri	5.00	30	6.94	
Eucinostomus sp	3.00	114	4.17	
Chaetodipterus faber	2.60	8	3.61	
Aluterus monoceros	2.00	4	2.78	
Haemulon sp	1.60	16	2.22	
Penaeus notialis	1.40	6	1.94	
Microgogonias furnieri	1.40	6	1.94	
Selar crumenophthalmus	1.00	4	1.39	
Trichiurus lepturus	1.00	24	1.39	
Lutjanus griseus	1.00	2	1.39	
Polydactylus virginicus	0.80	16	1.11	
Acanthostracion quadricornis	0.60	4	0.83	
Scomberomorus regalis	0.40	2	0.56	
Dagra marinus	0.40	6	0.56	
Syacium papillosum	0.30	6	0.42	
Chloroscombrus chrysurus	0.20	4	0.28	
Balistes capricus	0.20	2	0.28	
Haemulon steindachneri	0.20	4	0.28	
Isoistius parvipinnis	0.20	2	0.28	
Anchoa sp	0.20	30	0.28	
Chirocentrodon bleekeri	0.20	90	0.28	
Pellona harroweri	0.16	10	0.14	
Upeneus parvus	0.00	10		
Odotognathus compressus	0.00	2		
Total	72.00		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus buccanella	22.20	6	44.05	703
Lutjanus analis	10.80	12	21.43	702
Lutjanus synagris	9.00	48	17.86	704
Rhomboplites aurorubens	2.40	162	4.76	705
Holocentrus rufus	1.00	6	3.57	
Prionotus punctatus	1.00	6	2.38	
Acanthostracion polygonum	1.20	6	2.38	
Mulloidichthys martinicus	0.60	42	1.19	
Acanthostracion quadricornis	0.60	6	1.19	
Upeneus parvus	0.30	48	0.60	
Fristipomoides freemani	0.30	114	0.60	
Myripristis jacobus	0.00	30		
Chaetodon sedentarius	0.00	6		
Total	50.40		100.01	

DATE: 8/ 3/88 PROJECT STATION: 287
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1037 Long W 7531
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 6372.20 6373.20 1.00 Area code : 5
 FDEPTH: 30 25 GearCond.code: 1
 BDEPTH: 30 25 Validity code:
 Towing dir: 193° Wire out: 150 m Speed: 26 kn*10
 Sorted: 44 Kg Total catch: 44.45 CATCH/HOUR: 88.90

DATE: 9/ 3/88 PROJECT STATION: 291
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 922 Long W 7607
 TIME : 06:35 07:05 30 (min) Purpose code: 3
 LOG : 6558.30 6559.40 1.10 Area code : 5
 FDEPTH: 19 19 GearCond.code: 1
 BDEPTH: 19 19 Validity code:
 Towing dir: 220° Wire out: 100 m Speed: 22 kn*10
 Sorted: 17 Kg Total catch: 17.96 CATCH/HOUR: 35.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus cavalla	32.20	116	36.22	693
Chloroscombrus chrysurus	13.00	150	14.62	692
Rhizoprionodon porosus	11.00	6	12.37	
Chirocentrodon bleekeri	7.80	8632	8.77	
Caranx crysos	5.00	10	5.62	
Lutjanus synagris	5.00	40	5.62	
Selene spixii	2.40	28	2.70	
Eucinostomus gula	2.00	46	2.25	
Eugerres plumieri	2.00	10	2.25	
Acanthostracion polygonum	1.80	2	2.02	
Balistes capricus	1.80	8	2.02	
Panulirus argus	1.60	2	1.80	
Dagra marinus	1.00	2	1.12	
Sphyræna picudilla	1.00	2	1.12	
Chaetodipterus faber	0.60	2	0.67	
Albulia vulpes	0.30	2	0.34	
Trichiurus lepturus	0.30	2	0.34	
Loliguncula brevis	0.30	52	0.34	
Anchoa sp	0.10	32	0.11	
Total	88.90		99.96	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekeri	6.00	3560	16.70	
Lutjanus vivanus	5.60	2	15.59	706
Rhizoprionodon lalandii	4.40	4	12.25	
Cynoscion jamaicensis	4.00	42	11.14	
Lutjanus synagris	4.00	46	11.14	707
Lycengraulis grossidens	2.00	88	5.57	708
Sphyræna guachancho	1.40	26	3.90	
Holocentrus rufus	1.20	8	3.34	
Opisthonema oglinum	1.00	24	2.78	
Trichiurus lepturus	1.00	76	2.78	
Dagra marinus	0.80	2	2.23	
Pomadasys corvinaeformis	0.60	10	1.67	
Cynoscion leiarchus	0.60	2	1.67	
Scomberomorus regalis	0.60	8	1.67	
Balistes capricus	0.40	2	1.11	
Polydactylus oligodon	0.40	2	1.11	
Peprius paru	0.40	2	1.11	
Chloroscombrus chrysurus	0.40	12	1.11	
Scomberomorus brasiliensis	0.30	2	0.84	
Conodon nobilis	0.20	2	0.56	
Scomberomorus cavalla	0.20	4	0.56	
Oligoplites sp	0.20	10	0.56	
Myripristis jacobus	0.08	0	0.22	
Chaetodipterus faber	0.08	2	0.22	
Synodus foetens	0.06	2	0.17	
Loliguncula brevis	0.00	2		
Anchoa hepsetus	0.00	14		
Bairdiella sp	0.00	4		
Harengula jaguana	0.00	2		
Selene spixii	0.00	4		
Total	35.92		100.00	

DATE: 8/ 3/88 PROJECT STATION: 288
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1004 Long W 7546
 TIME : 14:40 15:10 30 (min) Purpose code: 3
 LOG : 6415.90 6417.50 1.60 Area code : 5
 FDEPTH: 75 74 GearCond.code: 1
 BDEPTH: 75 74 Validity code:
 Towing dir: 126° Wire out: 100 m Speed: 30 kn*10
 Sorted: 38 Kg Total catch: 38.90 CATCH/HOUR: 77.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	45.60	928	58.61	694
Rhomboplites aurorubens	7.80	198	10.03	695
Loligo pealei	7.00	378	9.00	696
Rhizoprionodon porosus	4.00	6	5.14	
Aluterus monoceros	3.80	6	4.08	
Chloroscombrus chrysurus	2.60	44	3.34	
Scomberomorus cavalla	2.40	4	3.08	
Sphyræna picudilla	1.00	10	1.29	
Caranx crysos	1.00	2	1.29	
Eucinostomus sp	0.80	22	1.03	
Lutjanus synagris	0.80	2	1.03	
Balistes capricus	0.60	4	0.77	
Pistularia tabacaria	0.20	2	0.26	
Peprius paru	0.20	2	0.26	
Fristipomoides macrophthalmus	0.00	2		
Penaeus notialis	0.00	2		
Priacanthus armatus	0.00	10		
Total	77.80		100.01	

DATE: 9/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 492
 start stop duration POSITION: Lat N 910 Long W 7618
 TIME : 11:15 11:45 30 (min) Purpose code: 3
 LOG : 6600.70 6602.30 1.60 Area code : 5
 FDEPTH: 20 14 GearCond.code:
 BDEPTH: 20 14 Validity code:
 Towing dir: 118° Wire out: 100 m Speed: 25 kn*10
 Sorted: 31 Kg Total catch: 82.20 CATCH/HOUR: 164.40

DATE: 9/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 295
 start stop duration POSITION: Lat N 847 Long W 7657
 TIME : 22:30 23:00 30 (min) Purpose code: 1
 LOG : 6695.00 6696.10 1.10 Area code : 5
 FDEPTH: 39 57 GearCond.code:
 BDEPTH: 39 57 Validity code:
 Towing dir: 327° Wire out: 200 m Speed: 21 kn*10
 Sorted: 29 Kg Total catch: 59.26 CATCH/HOUR: 118.52

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pellona harroweri	50.00	2842	30.41
Opisthonema oglinum	34.80	1080	21.17
Chloroscombrus chrysurus	22.00	646	13.38
Rhizoprionodon porosus	13.40	18	8.15
Sphyrna tiburo	12.60	8	7.66
Scomberomorus cavalla	8.40	4	5.11
Trichiurus lepturus	4.40	280	2.68
Lycengraulis grossidens	3.60	256	2.19
Bagre marinus	3.00	0	1.82
Cynoscion leiarchus	2.40	12	1.46
Chirocentrodon bleekermanus	2.40	932	1.46
Diapterus rhombeus	2.00	28	1.22
Lolliguncula brevis	1.20	92	0.73
Odontognathus compressus	0.80	144	0.49
Anchoa spinifer	0.80	196	0.49
Lutjanus synagris	0.80	2	0.49
Hemicarax aubryrhynchus	0.40	12	0.24
Oligoplites saurus	0.40	8	0.24
Polydactylus virginicus	0.40	8	0.24
Sphyrna guachancho	0.40	8	0.24
Selene setapinnis	0.20	36	0.12
Larimus brovicops	0.00	4	
Stellifer sp	0.00	4	
Cynoscion jamaicensis	0.00	8	
Anchoa hepsetus	0.00	4	
Total	164.40		99.99

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	56.80		47.92
Diapterus rhombeus	14.00	358	11.81
Ctenoscoiaena gracilicirrus	10.80	388	9.11
Lepidion sp	7.60	396	6.41
Synodus synodus	4.00	72	3.04
Eucinostomus sp	3.60	144	2.70
Upeneus parvus	3.20	0	
Rhizoprionodon lalandii	3.20	0	
Trichiurus lepturus	2.80	72	2.36
Pellona harroweri	2.00	168	2.36
Penaeus notialis	2.00	240	1.69
Anchoa spinifer	1.80	80	1.52
Loligo pealei	1.60	144	1.35
Bagre marinus	1.20	4	1.18
Selene setapinnis	1.20	24	1.01
Lutjanus synagris	1.00	8	0.84
Isopisthus parvipinnis	0.80	44	0.67
Synodus sp	0.60	280	0.51
Cyclopaetta chittendeni	0.40	4	0.34
Lolliguncula brevis	0.40	44	0.34
Porichthys sp	0.16	128	0.13
Acanthostracion quadricornis	0.12	4	0.10
MYCTOPHIDAE	0.08	132	0.07
Opisthonema oglinum	0.08	16	0.07
Prionotus punctatus	0.04	4	0.03
Chirocentrodon bleekermanus	0.04	56	0.03
Ornithoteutis antillarum	0.00	8	
Prionotus stearnsi	0.00	16	
Lutjanus purpurus	0.00	8	
BREGMACEPHALAE	0.00	8	
Diplostrum sp	0.00	8	
Harengula jaguana	0.00	24	
Total	118.52		99.97

DATE: 9/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 293
 start stop duration POSITION: Lat N 859 Long W 7632
 TIME : 15:35 16:05 30 (min) Purpose code: 3
 LOG : 6638.10 6639.40 1.30 Area code : 5
 FDEPTH: 50 32 GearCond.code:
 BDEPTH: 50 32 Validity code:
 Towing dir: 119° Wire out: 250 m Speed: 27 kn*10
 Sorted: 41 Kg Total catch: 41.20 CATCH/HOUR: 82.40

DATE: 10/ 3/88 GEAR TYPE: BF No:1 PROJECT STATION: 296
 start stop duration POSITION: Lat N 843 Long W 7710
 TIME : 02:05 02:35 30 (min) Purpose code: 1
 LOG : 6724.50 6725.70 1.20 Area code : 5
 FDEPTH: 69 64 GearCond.code:
 BDEPTH: 69 64 Validity code:
 Towing dir: 224° Wire out: 300 m Speed: 25 kn*10
 Sorted: 4 Kg Total catch: 42.50 CATCH/HOUR: 85.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Diapterus rhombeus	28.00	1290	33.98
Ctenoscoiaena gracilicirrus	13.00	456	15.78
Caranx crysos	12.40	56	15.05
Chloroscombrus chrysurus	5.00	164	7.04
Rhizoprionodon porosus	5.00	4	6.07
Lutjanus synagris	2.00	30	3.40
Eucinostomus sp	2.60	78	3.16
Trichiurus lepturus	2.00	100	2.43
Rhomboplites aurorubens	1.80	30	2.10
Scomberomorus regalis	1.60	12	1.94
Sphyrna guachancho	1.20	12	1.46
Selene setapinnis	1.00	24	1.21
Harengula jaguana	1.00	44	1.21
Cynoscion jamaicensis	1.00	8	1.21
Salar crumenophthalmus	1.00	14	1.21
Polydactylus virginicus	0.60	12	0.73
Selene vomer	0.60	8	0.73
Albulia vulpox	0.40	2	0.49
Lycengraulis grossidens	0.20	6	0.24
Synodus foetens	0.20	2	0.24
Loligo pealei	0.10	12	0.24
Upeneus parvus	0.10	8	0.12
Penaeus schmitti	0.00	4	
Lolliguncula brevis	0.00	6	
Total	82.40		100.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Upeneus parvus	16.00	1392	18.82
Prionotus stearnsi	16.00	2256	18.82
Pristipomoides macrophthalmus	16.00	768	18.82
Eucinostomus sp	8.00	432	9.41
Porichthys sp	4.80	608	5.65
Penaeus notialis	4.00	190	4.71
Chloroscombrus chrysurus	3.20	68	3.76
Rhomboplites aurorubens	3.00	62	3.53
Synodus foetens	2.40	72	2.82
Loligo pealei	2.00	54	2.35
Diplostrum radiale	1.60	64	1.88
Scomberomorus cavalla	1.60	2	1.88
Lepidion sp	1.60	112	1.88
Penaeus brasiliensis	1.00	22	1.10
Acanthostracion quadricornis	1.00	16	1.10
Sphyrna guachancho	1.00	6	1.18
Priacanthus sp	0.80	6	0.94
Ballistes capricus	0.60	4	0.71
Dibranchius atlanticus	0.40	2	0.47
Scorpaena sp.	0.00	16	
Dactylopterus volitans	0.00	128	
Total	85.00		99.99

DATE: 9/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 294
 start stop duration POSITION: Lat N 856 Long W 7629
 TIME : 16:50 17:20 30 (min) Purpose code: 3
 LOG : 6644.20 6645.70 1.50 Area code : 5
 FDEPTH: 9 13 GearCond.code:
 BDEPTH: 9 13 Validity code:
 Towing dir: 250° Wire out: 100 m Speed: 23 kn*10
 Sorted: 19 Kg Total catch: 51.59 CATCH/HOUR: 103.18

DATE: 10/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 297
 start stop duration POSITION: Lat N 825 Long W 7705
 TIME : 07:15 07:45 30 (min) Purpose code: 3
 LOG : 6770.20 6771.60 1.40 Area code : 5
 FDEPTH: 42 41 GearCond.code:
 BDEPTH: 42 41 Validity code:
 Towing dir: 137° Wire out: 200 m Speed: 27 kn*10
 Sorted: 9 Kg Total catch: 9.04 CATCH/HOUR: 18.08

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pellona harroweri	36.00	2700	34.09
Opisthonema oglinum	13.60	616	13.18
Cetengraulis edentulus	9.60	352	9.30
Harengula jaguana	8.00	536	7.75
Odontognathus mucronatus	5.60	408	5.43
Xiphopenaeus kroyeri	4.94	540	4.79
Chloroscombrus chrysurus	4.00	40	4.65
Lolliguncula brevis	4.12	236	3.99
Oligoplites saurus	4.00	96	3.80
Bagre marinus	3.00	4	2.91
Trichiurus lepturus	1.60	60	1.55
Peprilus paru	1.40	26	1.35
Nebria microps	1.20	14	1.16
Scomberomorus regalis	1.00	10	0.97
Lycengraulis grossidens	0.00	112	0.78
Chirocentrodon bleekermanus	0.00	320	0.78
Isopisthus parvipinnis	0.56	40	0.54
Hemicarax aubryrhynchus	0.50	10	0.48
Larimus brovicops	0.40	16	0.39
Penaeus notialis	0.40	22	0.39
Sphyrna guachancho	0.40	4	0.39
Anchoa spinifer	0.24	120	0.23
Penaeus schmitti	0.14	2	0.14
Selene vomer	0.08	2	0.08
Eucinostomus sp	0.00	8	
Diapterus rhombeus	0.00	8	
Selene setapinnis	0.00	16	
Bagre bagre	0.00	8	
Total	103.18		100.01

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhizoprionodon lalandii	4.40	6	24.34
Rhomboplites aurorubens	2.90	56	16.84
Carcharhinus acronotus	2.60	2	14.38
Loligo pealei	1.80	108	9.96
Lutjanus synagris	1.40	14	7.74
Eucinostomus sp	1.00	36	5.53
Chloroscombrus chrysurus	1.00	26	5.53
Bagre marinus	1.00	2	5.53
Scomberomorus regalis	0.50	2	2.77
Ballistes capricus	0.40	2	2.21
Salar crumenophthalmus	0.30	6	1.66
Peprilus paru	0.20	4	1.11
Pristipomoides macrophthalmus	0.14	24	0.77
Trichiurus lepturus	0.10	2	0.55
Upeneus parvus	0.10	56	0.55
Penaeus notialis	0.08	4	0.44
Selene setapinnis	0.08	2	0.44
Prionotus rubio	0.06	4	0.33
Prionotus stearnsi	0.02	18	0.11
Dactylopterus volitans	0.00	4	
Porichthys sp	0.00	4	
Total	18.08		99.99

DATE: 10/ 3/88 GEAR TYPE: BT No:1 PROJECT STATION: 298
 start stop duration POSITION: Lat N 821 Long W 7654
 TIME : 10:35 11:05 30 (min) Purpose code: 3
 LOG : 6797.80 6799.50 0.80 Area code : 5
 FDEPTH: 46 51 GearCond.code:
 BDEPTH: 46 51 Validity code:
 Towing dir: 242° Wire out: 200 m Speed: 15 kn*10
 Sorted: 32 Kg Total catch: 193.06 CATCH/HOUR: 386.12

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	304.00	9856	99.45
Bagre marinus	0.80	2	0.21
Lutjanus synagris	0.50	2	0.13
Eucinostomus sp	0.24	12	0.06
Selene vomer	0.24	12	0.06
Selene setapinnis	0.24	24	0.06
Penaeus notialis	0.10	2	0.03
Loligo sp	0.00	8	
Total	306.12		100.00

PROJECT STATION: 299
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 714 Long W 5429
 start stop duration Purpose code: 3
 TIME : 06:01 06:23 22 (min) Area code : 1
 LOG : 0742.30 0743.60 1.30 GearCond.code: 1
 FDEPTH: 01 01 Validity code: 1
 BDEPTH: 01 01
 Towing dir: 90° Wire out: 450 m Speed: 30 kn*10
 Sorted: 25 Kg Total catch: 25.70 CATCH/HOUR: 70.09

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Rhomboplites aurorubens	21.82	338	31.13
Rhizoprionodon lalandii	13.64	14	19.46
Chloroscombrus chrysurus	8.18	76	11.67
Selar crumenophthalmus	0.18	07	11.67
Sphyræna guachancho	5.18	5	7.39
Cynoscion jamaicensis	2.73	8	3.89
Peprilus paru	2.73	5	3.89
Priacanthus arenatus	2.73	14	3.89
Upeneus parvus	1.91	14	2.73
Cyclosetta fimbriata	0.82	3	1.17
Diodon hystrix	0.55	3	0.78
SERRANIDAE	0.55	3	0.78
Trichurus lepturus	0.55	3	0.78
Loligo plei	0.27	14	0.39
Prionotus sp	0.14	3	0.20
Prionotus carolinus	0.14	3	0.20
Selene vomer	0.00	3	
Synodus sp	0.00	0	
Porichthys sp	0.00	3	
Total	70.12		100.02

PROJECT STATION: 304
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 720 Long W 5500
 start stop duration Purpose code: 3
 TIME : 17:14 17:44 30 (min) Area code : 1
 LOG : 0821.90 0822.00 0.10 GearCond.code: 1
 FDEPTH: 91 92 Validity code: 1
 BDEPTH: 91 92
 Towing dir: 293° Wire out: 450 m Speed: 1 kn*10
 Sorted: 85 Kg Total catch: 85.00 CATCH/HOUR: 170.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Peprilus paru	66.00	274	38.02
Hemicaranx amblyrhynchus	44.00	214	25.08
Rhizoprionodon lalandii	30.00	34	17.65
Trichurus lepturus	14.80	256	8.71
Scomberomorus cavalla	14.00	4	8.24
Selar crumenophthalmus	0.60	4	0.35
Pristipomoides macrophthalmus	0.30	2	0.18
Rhomboplites aurorubens	0.30	2	0.18
Trachurus lathami	0.00	2	
Total	170.00		100.01

PROJECT STATION: 300
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 714 Long W 5414
 start stop duration Purpose code: 3
 TIME : 08:45 09:15 30 (min) Area code : 1
 LOG : 0764.00 0765.20 0.40 GearCond.code: 1
 FDEPTH: 05 06 Validity code: 1
 BDEPTH: 05 06
 Towing dir: 290° Wire out: 450 m Speed: 15 kn*10
 Sorted: 34 Kg Total catch: 101.00 CATCH/HOUR: 202.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chloroscombrus chrysurus	160.60	1656	83.47
Sphyræna guachancho	15.00	30	7.43
Selar crumenophthalmus	11.40	72	5.64
Opisthonema oglinum	4.80	18	2.36
Priacanthus arenatus	1.20	8	0.59
Loligo plei	0.90	12	0.45
Total	201.90		99.96

PROJECT STATION: 305
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 658 Long W 5447
 start stop duration Purpose code: 3
 TIME : 08:36 09:06 30 (min) Area code : 1
 LOG : 0951.10 0951.20 0.10 GearCond.code: 1
 FDEPTH: 55 56 Validity code: 1
 BDEPTH: 55 56
 Towing dir: 280° Wire out: 300 m Speed: 1 kn*10
 Sorted: Kg Total catch: 0.10 CATCH/HOUR: 0.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Selene sp	0.10	20	50.00
Peprilus paru	0.10	2	50.00
Priacanthus arenatus	0.00	2	
Total	0.20		100.00

PROJECT STATION: 301
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 722 Long W 5410
 start stop duration Purpose code: 3
 TIME : 11:16 11:46 30 (min) Area code : 1
 LOG : 0703.10 0703.20 0.10 GearCond.code: 1
 FDEPTH: 113 116 Validity code: 1
 BDEPTH: 113 116
 Towing dir: 280° Wire out: 500 m Speed: 1 kn*10
 Sorted: 50 Kg Total catch: 49.60 CATCH/HOUR: 99.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trachurus lathami	31.00	760	31.25
Lutjanus purpureus	26.40	8	26.61
Selar crumenophthalmus	25.40	226	25.60
Rhomboplites aurorubens	12.60	20	12.70
Sardinella aurita	2.20	16	7.22
Pristipomoides macrophthalmus	1.20	8	1.21
Trachinotus carolinus	0.40	2	0.40
Total	99.20		99.99

PROJECT STATION: 306
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 640 Long W 5453
 start stop duration Purpose code: 3
 TIME : 11:20 11:50 30 (min) Area code : 1
 LOG : 0972.00 0972.80 GearCond.code: 1
 FDEPTH: 40 40 Validity code: 1
 BDEPTH: 40 40
 Towing dir: 280° Wire out: 250 m Speed: kn*10
 Sorted: 12 Kg Total catch: 12.40 CATCH/HOUR: 24.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Decapterus punctatus	5.00	100	20.16
Sardinella aurita	3.40	66	13.71
Opisthonema oglinum	3.20	56	12.90
Lutjanus synagris	3.00	4	12.10
Chloroscombrus chrysurus	3.00	62	12.10
Loligo plei	2.80	58	11.29
Aluterus monoceros	2.00	2	8.06
Trichurus lepturus	1.40	26	5.65
Hemicaranx amblyrhynchus	0.60	2	2.42
Scomberomorus brasiliensis	0.40	2	1.61
Total	24.80		100.00

PROJECT STATION: 302
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 719 Long W 5433
 start stop duration Purpose code: 3
 TIME : 13:15 13:45 30 (min) Area code : 1
 LOG : 0796.30 0796.40 0.10 GearCond.code: 1
 FDEPTH: 90 92 Validity code: 1
 BDEPTH: 90 92
 Towing dir: 285° Wire out: 450 m Speed: 1 kn*10
 Sorted: 103 Kg Total catch: 185.50 CATCH/HOUR: 371.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trachurus lathami	160.00	5858	43.13
Lutjanus purpureus	120.60	44	32.51
Selar crumenophthalmus	52.00	648	14.02
Rhomboplites aurorubens	29.00	210	7.82
Priacanthus arenatus	7.20	16	1.94
Pristipomoides macrophthalmus	1.40	10	0.38
Sardinella aurita	0.80	16	0.22
Total	371.00		100.02

PROJECT STATION: 307
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 632 Long W 5449
 start stop duration Purpose code: 3
 TIME : 13:42 14:12 30 (min) Area code : 1
 LOG : 0890.20 0892.00 2.60 GearCond.code: 1
 FDEPTH: 33 31 Validity code: 1
 BDEPTH: 33 31
 Towing dir: 122° Wire out: 250 m Speed: 50 kn*10
 Sorted: 46 Kg Total catch: 726.10 CATCH/HOUR: 1452.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichurus lepturus	381.60	11794	26.28
Pellona harroweri	356.40	15444	24.54
Orthopristis ruber	122.40	552	8.43
Chirocentrodon bleekeriianus	115.20	16442	7.93
Sphyrna lewini	86.40	36	5.95
Scomberomorus brasiliensis	82.80	108	5.70
Harengula sp	64.80	2260	4.46
Cynoscion jamaicensis	57.60	280	3.97
Lutjanus synagris	55.40	82	3.81
Sphyræna guachancho	54.00	72	3.72
Micropogonias furnieri	36.00	216	2.48
Macrodon ancylodon	32.40	396	2.23
Prionotus punctatus	7.20	36	0.50
Peprilus paru	0.00	36	
Selene setapinnis	0.00	36	
Selene vomer	0.00	180	
Sardinella aurita	0.00	36	
Opisthonema oglinum	0.00	36	
Total	1452.20		100.00

PROJECT STATION: 303
 DATE: 9/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 711 Long W 5450
 start stop duration Purpose code: 3
 TIME : 15:41 16:11 30 (min) Area code : 1
 LOG : 0813.70 0813.80 0.10 GearCond.code: 1
 FDEPTH: 77 77 Validity code: 1
 BDEPTH: 77 77
 Towing dir: 280° Wire out: 400 m Speed: 1 kn*10
 Sorted: 23 Kg Total catch: 22.50 CATCH/HOUR: 45.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Selene setapinnis	14.00	50	31.11
Rhizoprionodon porosus	11.00	2	24.44
Scomberomorus cavalla	10.60	4	23.56
Selar crumenophthalmus	3.80	32	8.44
Trichurus lepturus	2.40	40	5.33
Trachurus lathami	2.00	14	4.44
Peprilus paru	1.20	6	2.67
Total	45.00		99.99

PROJECT STATION: 308
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 621 Long W 5443
 start stop duration Purpose code: 3
 TIME : 15:42 15:54 12 (min) Area code : 1
 LOG : 0906.60 0907.10 0.50 GearCond.code: 5
 FDEPTH: 20 20 Validity code: 1
 BDEPTH: 20 20
 Towing dir: 229° Wire out: 200 m Speed: 25 kn*10
 Sorted: 13 Kg Total catch: 455.50 CATCH/HOUR: 2277.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Xiphopenaeus kroyeri	720.00	61200	31.61
Anchoviella sp	320.00	28160	14.05
Macrodon ancylodon	240.00	3360	10.54
Penaeus subtilis	240.00	7040	10.54
Lycengraulis grossidens	192.00	66000	8.43
Bagre bagre	160.00	1920	7.03
Peprilus paru	160.00	2560	7.03
Cynoscion virescens	141.00	45	6.19
Nebris microps	48.00	320	2.11
Arius sp	20.00	10	0.88
Lonchurus lanceolatus	16.00	160	0.70
Selene setapinnis	12.50	10	0.55
Scomberomorus brasiliensis	8.00	5	0.35
Cynoscion jamaicensis	0.00	640	
Stellifer lanceolatus	0.00	640	
Total	2277.50		100.01

PROJECT STATION: 309
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 616 Long W 5452
 start stop duration Purpose code: 3
 TIME : 16:57 17:27 30 (min) Area code : 1
 LOG : 9015.00 9016.60 1.60 GearCond.code: 1
 FDEPTH: 10 11 Validity code:
 BDEPTH: 10 11
 Towing dir: 283° Wire out: 75 m Speed: 33 kn*10
 Sorted: 29 Kg Total catch: 94.90 CATCH/HOUR: 189.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion virescens	38.80	10	20.44	25
Xiphopenaeus kroyeri	29.60	4052	15.60	
Scomberomorus brasiliensis	23.60	16	12.43	26
Anchoviella lepidostostole	20.80	1316	10.96	
Hemicaranx amblyrhynchus	16.40	256	8.64	
Anchoa spinifer	14.00	360	7.38	27
Selene setapinnis	11.20	12	5.90	
Trichiurus lepturus	8.80	676	4.64	
Macrondon ancydon	6.80	200	3.58	
Scomberomorus cavalla	5.20	44	2.74	
Pepilius paru	4.80	104	2.53	
Harengula jaguana	4.40	156	2.32	
Chloroscombrus chrysurus	1.20	96	0.63	
Selene setapinnis	0.80	96	0.42	
Oligoplites sp	0.80	24	0.42	
Nebria microps	0.80	12	0.42	
Paralonchurus elegans	0.80	4	0.42	
Chirocentron bleekorianus	0.60	26	0.32	
Bagre bagre	0.40	20	0.21	
Penaeus subtilis	0.00	8		
Total	189.80		100.00	

PROJECT STATION: 310
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 618 Long W 5458
 start stop duration Purpose code: 3
 TIME : 18:05 18:35 30 (min) Area code : 1
 LOG : 9022.10 9023.30 1.20 GearCond.code: 1
 FDEPTH: 17 19 Validity code: 1
 BDEPTH: 17 19
 Towing dir: 282° Wire out: 100 m Speed: 25 kn*10
 Sorted: 34 Kg Total catch: 140.40 CATCH/HOUR: 280.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa spinifer	108.00	7832	38.46	
Macrondon ancydon	52.00	800	18.52	28
Anchoviella lepidostostole	32.00	2848	11.40	
Pepilius paru	20.00	520	7.12	29
Xiphopenaeus kroyeri	17.60	1440	6.27	
Trichiurus lepturus	12.00	1224	4.27	
Chaetodontopus faber	10.00	4	3.56	
Odontognathus mucronatus	6.40	192	2.28	
Engraulis surystole	6.40	160	2.28	
Penaeus subtilis	6.40	152	2.28	
Bagre bagre	5.60	80	1.99	
Scomberomorus cavalla	2.80	64	1.00	
Chloroscombrus chrysurus	0.80	168	0.28	
Echeneis naucrates	0.80	8	0.28	
Harengula jaguana	0.00	24		
Total	280.80		99.99	

PROJECT STATION: 311
 DATE: 10/ 5/88 GEAR TYPE: BT No:4 POSITION: Lat N 620 Long W 5523
 start stop duration Purpose code: 1
 TIME : 21:10 21:40 30 (min) Area code : 1
 LOG : 9045.70 9046.70 1.00 GearCond.code: 1
 FDEPTH: 0 0 Validity code:
 BDEPTH: 29 28
 Towing dir: 274° Wire out: 50 m Speed: 20 kn*10
 Sorted: 36 Kg Total catch: 142.00 CATCH/HOUR: 284.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoviella lepidostostole	67.20	11464	23.66	
Chirocentron bleekorianus	44.80	8992	15.77	
Pellona narrovieri	44.80	1328	15.77	
Trichiurus lepturus	44.00	384	15.49	
Harengula jaguana	33.60	1752	11.83	30
Pepilius paru	13.60	48	4.79	
Opisthonema oglinum	13.60	128	4.79	
Hemicaranx amblyrhynchus	12.00	88	4.23	
Trichiurus lepturus	6.80	560	2.39	
Macrondon ancydon	2.40	8	0.85	
Cynoscion virescens	1.20	8	0.42	
Total	284.00		99.99	

PROJECT STATION: 312
 DATE: 10/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 631 Long W 5523
 start stop duration Purpose code: 3
 TIME : 23:09 23:39 30 (min) Area code : 1
 LOG : 9058.80 9059.80 1.00 GearCond.code: 1
 FDEPTH: 33 34 Validity code:
 BDEPTH: 33 34
 Towing dir: 300° Wire out: 250 m Speed: 20 kn*10
 Sorted: 61 Kg Total catch: 182.30 CATCH/HOUR: 364.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	127.20	2544	34.89	
Euclinostomus argenteus	57.00	1272	15.63	
Lutjanus synagris	38.40	222	10.53	32
Haemulon steindachneri	33.00	310	9.05	
Cynoscion similis	28.80	144	7.90	
Upeneus parvus	28.20	1008	7.73	
Acanthostracion quadricornis	11.40	108	3.13	
Opisthonema oglinum	9.00	252	2.47	
Priacanthus arenatus	8.40	42	2.30	
Decapterus punctatus	4.80	90	1.32	
Calamus pennatula	3.60	18	0.99	
Aluterus schoepfi	2.40	6	0.66	
Diplectrum formosum	2.40	36	0.66	
Sphyræna guachancho	1.80	6	0.49	
Rhomboplites aurorubens	1.80	30	0.49	
Penaeus brasiliensis	1.60	32	0.44	31
Ophidion sp.	1.20	72	0.33	
Priacanthus	1.20	36	0.33	
Haemulon plumieri	1.20	6	0.33	
Gymnarchus nudus	0.60	6	0.16	
Lepophidium brevibarbo	0.60	54	0.16	
Syacium micrurum	0.00	12		
LOLIGINIDAE	0.00	42		
Bagre bagre	0.00	6		
Macrondon ancydon	0.00	6		
Haemulon boschnae	0.00	12		
Total	364.60		99.99	

PROJECT STATION: 313
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 715 Long W 5516
 start stop duration Purpose code: 3
 TIME : 05:00 05:30 30 (min) Area code : 1
 LOG : 9103.30 9103.30 GearCond.code: 1
 FDEPTH: 83 83 Validity code:
 BDEPTH: 83 83
 Towing dir: 285° Wire out: 450 m Speed: kn*10
 Sorted: 28 Kg Total catch: 208.40 CATCH/HOUR: 416.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	106.00	3710	25.43	37
Rhomboplites aurorubens	106.00	760	25.43	36
Lutjanus purpurus	36.80	4	8.83	33
Scomberomorus brasiliensis	36.60	14	8.78	35
Mycteroperca phenax	35.00	4	8.40	34
Selar crumenophthalmus	33.00	490	7.92	38
Rhizoprionodon porosus	25.40	24	6.09	
Scomberomorus brasiliensis	10.00	20	2.40	39
Pristipomoides macrophthalmus	0.00	140	1.92	40
Priacanthus arenatus	5.00	30	1.20	
Hemicaranx amblyrhynchus	5.00	20	1.20	
Trichiurus lepturus	5.00	110	1.20	
Decapterus macarellus	2.00	40	0.48	
Sphyræna guachancho	2.00	10	0.48	
Apogon pseudomaculatus	1.00	60	0.24	
Total	416.80		100.00	

PROJECT STATION: 314
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 705 Long W 5533
 start stop duration Purpose code: 3
 TIME : 07:23 07:48 25 (min) Area code : 1
 LOG : 9120.90 9120.90 GearCond.code: 1
 FDEPTH: 76 79 Validity code:
 BDEPTH: 76 79
 Towing dir: 200° Wire out: 400 m Speed: 1 kn*10
 Sorted: 29 Kg Total catch: 29.45 CATCH/HOUR: 70.68

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	32.16	107	45.50	41
Selar crumenophthalmus	16.80	206	23.77	42
Scomberomorus brasiliensis	6.00	24	8.49	43
Hemicaranx amblyrhynchus	6.00	36	8.49	
Trichiurus lepturus	3.60	26	5.09	
Lutjanus purpurus	2.40	7	3.40	
Rhizoprionodon porosus	1.68	2	2.30	
Pepilius paru	0.72	5	1.02	
Opisthonema oglinum	0.72	5	1.02	
Priacanthus arenatus	0.48	2	0.68	
Trachurus lathami	0.12	5	0.17	
Total	70.68		100.01	

PROJECT STATION: 315
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 710 Long W 5544
 start stop duration Purpose code: 3
 TIME : 08:55 09:25 30 (min) Area code : 1
 LOG : 9129.90 9130.80 0.90 GearCond.code: 1
 FDEPTH: 79 81 Validity code:
 BDEPTH: 79 81
 Towing dir: 206° Wire out: 450 m Speed: 20 kn*10
 Sorted: 35 Kg Total catch: 138.60 CATCH/HOUR: 277.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selar crumenophthalmus	148.00	2832	53.39	44
Sardinella aurita	166.00	1152	20.20	46
Trachurus lathami	40.00	1272	14.43	45
Pristipomoides macrophthalmus	12.00	248	4.33	
Decapterus macarellus	6.40	96	2.31	
Loligo sp	4.00	96	1.44	
Ariomma bondi	4.00	48	1.44	
Ariomma regulus	3.20	40	1.15	
Scomber japonicus	1.60	8	0.58	
Synodus sp	0.80	8	0.29	
Rhomboplites aurorubens	0.80	8	0.29	
Lophiodon sp.	0.40	8	0.14	
Total	277.20		99.99	

PROJECT STATION: 316
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 704 Long W 5556
 start stop duration Purpose code: 3
 TIME : 10:47 11:17 30 (min) Area code : 1
 LOG : 9143.00 9144.20 1.20 GearCond.code: 1
 FDEPTH: 72 71 Validity code:
 BDEPTH: 72 71
 Towing dir: 316° Wire out: 400 m Speed: 25 kn*10
 Sorted: 50 Kg Total catch: 219.50 CATCH/HOUR: 439.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	161.00	2050	36.67	47
Sphyræna guachancho	91.00	160	20.73	49
Mycteroperca cidi	40.00	2	9.11	
Mulloidichthys martinicus	28.00	206	6.38	
Trachurus lathami	23.80	196	5.42	48
Lutjanus joco	20.00	4	4.56	
Albulia vulpen	15.40	28	3.51	
Pomacanthus paru	11.20	6	2.55	
Calamus pennatula	10.60	24	2.41	
Pristipomoides macrophthalmus	8.40	110	1.91	
Selar crumenophthalmus	7.00	20	1.59	
Dalistes vetula	5.40	10	1.23	
Lutjanus purpurus	4.00	4	0.91	
Acanthostracion quadricornis	3.20	2	0.73	
Acanthurus chirurgus	3.00	6	0.68	
Pseudupeneus maculatus	2.00	6	0.46	
Lutjanus synagris	1.60	2	0.36	
Loligo pealii	1.40	62	0.31	
Priacanthus arenatus	1.40	34	0.31	
Sorranus phoebe	0.60	14	0.14	
LABRIDAE	0.00	6		
Equetus lanceolatus	0.00	6		
Myripristis jacobus	0.00	6		
Chaetodon capistratus	0.00	8		
Holocentrus adscensionis	0.00	8		
Total	439.00		99.99	

PROJECT STATION: 317
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 714 Long W 5607
 start stop duration Purpose code: 3
 TIME : 12:33 13:03 30 (min) Area code : 1
 LOG : 9154.90 9156.10 1.20 GearCond.code:
 FDEPTH: 03 01 Validity code:
 DDEPTH: 03 01
 Towing dir: 285° Wire out: 450 m Speed: 25 kn*10
 Sorted: 33 Kg Total catch: 390.00 CATCH/HOUR: 780.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	480.00	17224	61.54	50
Rhomboplites aurorubens	199.20	3240	25.54	51
Priacanthus aronatus	45.60	600	5.05	
Pristipomoides macrophthalmus	31.20	520	4.00	
Selar crumenophthalmus	16.80	312	2.15	
Peprilus paru	2.40	24	0.31	
Decapterus punctatus	2.40	40	0.31	
Upeneus parvus	2.40	72	0.31	
Total	780.00		100.01	

PROJECT STATION: 318
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 706 Long W 5614
 start stop duration Purpose code: 3
 TIME : 14:19 14:49 30 (min) Area code : 1
 LOG : 9166.80 9168.60 1.80 GearCond.code:
 FDEPTH: 65 65 Validity code:
 DDEPTH: 65 65
 Towing dir: 103° Wire out: 350 m Speed: 35 kn*10
 Sorted: 29 Kg Total catch: 344.10 CATCH/HOUR: 688.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhomboplites aurorubens	288.00	8272	41.05	54
Sardinella aurita	135.00	4546	19.62	53
Lutjanus vivanus	106.00	124	15.40	52
Haemulon boschmae	32.40	5346	4.71	
Chloroscombrus chrysurus	32.40	504	4.71	
Lutjanus purpurus	26.00	4	3.78	
Epinephelus morio	20.00	2	2.91	
Lutjanus analis	19.60	2	2.85	
Decapterus punctatus	18.00	1206	2.62	
Loligo pealei	5.40	198	0.70	
Eucinostomus argenteus	1.80	10	0.26	
Priacanthus arenatus	1.80	10	0.26	
Pristipomoides macrophthalmus	1.80	10	0.26	
Myripristis jacobus	0.00	16		
Total	688.20		100.01	

PROJECT STATION: 319
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 654 Long W 5558
 start stop duration Purpose code: 3
 TIME : 16:39 17:09 30 (min) Area code : 1
 LOG : 9105.40 9107.10 1.70 GearCond.code:
 FDEPTH: 51 49 Validity code:
 DDEPTH: 51 49
 Towing dir: 104° Wire out: 300 m Speed: 35 kn*10
 Sorted: 32 Kg Total catch: 242.05 CATCH/HOUR: 484.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	228.20	8820	47.14	55
Scomberomorus brasiliensis	84.00	168	17.35	57
Rhomboplites aurorubens	63.00	518	13.01	56
Lutjanus purpurus	28.60	4	5.91	
Haemulon aurolineatum	16.80	238	3.47	
Priacanthus aronatus	14.00	392	2.89	
Haemulon boschmae	14.00	896	2.89	
Lutjanus apodus	13.80	2	2.85	
Trachurus lathami	7.00	28	1.45	
Lutjanus synagris	5.60	42	1.16	
Calanus pinnatula	2.80	14	0.58	
Eucinostomus argenteus	2.80	42	0.58	
Loligo pealei	1.40	84	0.29	
Pristipomoides macrophthalmus	1.40	28	0.29	
Decapterus punctatus	0.70	14	0.14	
Upeneus parvus	0.00	28		
Total	484.10		100.00	

PROJECT STATION: 320
 DATE: 11/ 5/88 GEAR TYPE: PT No:2 POSITION: Lat N 642 Long W 5546
 start stop duration Purpose code: 1
 TIME : 20:40 21:10 30 (min) Area code : 1
 LOG : 9210.30 9219.10 0.80 GearCond.code:
 FDEPTH: 10 10 Validity code:
 DDEPTH: 39 40
 Towing dir: 330° Wire out: 100 m Speed: 25 kn*10
 Sorted: 33 Kg Total catch: 328.50 CATCH/HOUR: 657.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opiathonema oglinum	570.00	7800	86.76	58
Sardinella aurita	48.00	760	7.31	59
Decapterus macarellus	16.00	520	2.44	60
Chloroscombrus chrysurus	15.00	500		
Upeneus parvus	6.00	440	0.91	
Priacanthus arenatus	2.00	20	0.30	
Dactylopterus volitans	0.00	20		
Haemulon boschmae	0.00	20		
Total	657.00		100.00	

R/V DR. FRIDTJOF HANSEN PROJECT: SC CATCH DATA PROJECT STATION: 321
 DATE: 11/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 629 Long W 5551
 start stop duration Purpose code: 3
 TIME : 00:13 00:14 30 (min) Area code : 1
 LOG : 9235.10 9236.20 1.10 GearCond.code:
 FDEPTH: 30 30 Validity code:
 DDEPTH: 30 30
 Towing dir: 245° Wire out: 150 m Speed: 25 kn*10
 Sorted: 28 Kg Total catch: 28.10 CATCH/HOUR: 56.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	27.60	3198	49.11	
Lutjanus synagris	4.20	6	7.47	
Loligo pealei	4.00	184	7.12	
Pomichthys sp	3.00	326	5.34	
Peneus brasiliensis	2.40	48	4.27	61
Saurida sp	2.20	322	3.91	
Peneus notialis	2.00	122	3.56	
Orthopristis ruber	1.60	8	2.05	
Priacanthus aronatus	1.60	58	2.85	
Hemicarax amblyrhynchus	1.20	6	2.14	
Chloroscombrus chrysurus	1.00	26	1.70	
Haemulon boschmae	0.80	110	1.42	
Decapterus punctatus	0.60	20	1.07	
Rucinostomus argenteus	0.60	24	1.07	
Sphyraena guachancho	0.60	2	1.07	
CRABS	0.40	20	0.71	
Haemulon aurolineatum	0.40	4	0.71	
Acanthostracion quadricornis	0.40	4	0.71	
Priacanthus arenatus	0.40	36	0.71	
Shrimps, small, non comm.	0.20	130	0.36	
Parexocoetus brachypterus	0.20	10	0.36	
Diplactrum formosum	0.20	4	0.36	
Rhomboplites aurorubens	0.20	4	0.36	
Lepophtalmus profundus	0.20	4	0.36	
Pristipomoides macrophthalmus	0.00	32	0.36	
Sphocroides sp	0.00	10		
Total	56.20		100.03	

PROJECT STATION: 322
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 610 Long W 5525
 start stop duration Purpose code: 3
 TIME : 05:23 05:53 30 (min) Area code : 1
 LOG : 9281.90 9282.90 1.00 GearCond.code:
 FDEPTH: 27 27 Validity code:
 DDEPTH: 27 27
 Towing dir: 300° Wire out: 200 m Speed: 25 kn*10
 Sorted: 69 Kg Total catch: 1427.00 CATCH/HOUR: 2855.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichurus lepturus	904.80	14040	31.69	
Pellona harreri	780.00	32136	27.31	
Harengula jaguana	405.60	14040	14.20	
Chirocentrodon bleekeriianus	103.40	29562	6.42	
Rhizoprionodon porosus	97.60	430	3.42	
Macrodon ancylodon	78.00	312	2.73	
Bagre bagre	58.60	156	2.05	
Hemicarax amblyrhynchus	46.80	624	1.64	
Cynoscion jamaicensis	43.00	586	1.51	
Scomberomorus cavalla	40.00	24	1.40	63
Cynoscion virescens	39.00	118	1.37	
Scomberomorus brasiliensis	33.20	46	1.16	64
Peprilus paru	31.20	312	1.09	
Lutjanus synagris	22.00	18	0.77	67
Dasyatis sp	20.00	2	0.70	
Chaetodipterus faber	15.60	156	0.55	
PCMDASYIIDAE	15.60	156	0.55	
Micropogonias furnieri	15.20	20	0.53	65
Cynoscion virescens	12.00	8	0.42	66
Sphyrna tiburo	8.00	4	0.28	
Trachinotus caryennensis	8.00	4	0.28	
Conodon nobilis	2.40	4	0.07	
Pomatomus saltatrix	2.00	4	0.07	
Anchoa spinifer	1.60	2	0.06	
0.00	462			
Total	2855.60		100.00	

PROJECT STATION: 323
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 628 Long W 5540
 start stop duration Purpose code: 3
 TIME : 07:20 07:50 30 (min) Area code : 1
 LOG : 9296.50 9297.70 1.20 GearCond.code:
 FDEPTH: 31 30 Validity code:
 DDEPTH: 31 30
 Towing dir: 309° Wire out: 250 m Speed: 25 kn*10
 Sorted: 38 Kg Total catch: 191.50 CATCH/HOUR: 383.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Decapterus macarellus	217.00	2820	56.66	68
Loligo plei	95.00	3900	24.80	69
Engraulis eurystole	32.00	10700	0.36	
Trichurus lepturus	20.00	80	5.22	
Selar crumenophthalmus	17.00	348	4.44	
Lutjanus synagris	1.00	10	0.26	
Diplactrum formosum	1.00	10	0.26	
Upeneus parvus	0.00	20		
Total	383.00		100.00	

PROJECT STATION: 324
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 619 Long W 5545
 start stop duration Purpose code: 3
 TIME : 09:05 09:35 30 (min) Area code : 1
 LOG : 9307.40 9308.70 1.30 GearCond.code:
 FDEPTH: 27 26 Validity code:
 DDEPTH: 27 26
 Towing dir: 225° Wire out: 150 m Speed: 25 kn*10
 Sorted: 61 Kg Total catch: 60.85 CATCH/HOUR: 121.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	84.00	2772	69.02	70
Scomberomorus brasiliensis	25.00	84	20.54	71
Opiathonema oglinum	10.00	482	8.22	72
Chloroscombrus chrysurus	1.00	40	0.82	
Chaetodipterus faber	0.80	40	0.66	
Decapterus macarellus	0.50	10	0.41	
Selar crumenophthalmus	0.40	4	0.33	
Total	121.70		100.00	

PROJECT STATION: 325
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 607
 start stop duration Long W 5551
 TIME : 10:55 11:25 30 (min) Purpose code: 3
 LOG : 9320.40 9321.80 1.40 Area code : 1
 FDEPTH: 15 16 GearCond.code:
 BDEPTH: 15 16 Validity code:
 Towing dir: 260° Wire out: 75 m Speed: 30 kn*10

Sorted: 29 Kg Total catch: 29.30 CATCH/HOUR: 58.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chaetodipterus faber	21.00	10	35.04
Rhizoprionodon porosus	17.40	20	29.69
Engraulis eurystole	9.00	550	15.36
Scomberomorus brasiliensis	6.00	4	10.24
Trachinotus cayennensis	5.00	6	8.53
Echeneis naucrates	0.20	4	0.34
Total	58.60	100.00	

PROJECT STATION: 326
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 610
 start stop duration Long W 5550
 TIME : 12:03 12:33 30 (min) Purpose code: 3
 LOG : 9326.80 9328.30 1.50 Area code : 1
 FDEPTH: 24 24 GearCond.code:
 BDEPTH: 24 24 Validity code:
 Towing dir: 303° Wire out: 150 m Speed: 30 kn*10

Sorted: 23 Kg Total catch: 63.05 CATCH/HOUR: 127.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Engraulis sp	56.00	29120	43.85
Loligo pealii	10.00	424	14.10
Engraulis eurystole	14.40	1952	11.20
Trichiurus lepturus	12.80	574	10.02
Opisthonema oglinum	7.20	200	5.64
Orthopristis ruber	5.40	20	4.23
Rhizoprionodon porosus	4.20	2	3.29
Papilius paru	3.00	54	2.98
Scomberomorus brasiliensis	2.10	18	1.64
Hemicaranx amblyrhynchus	1.40	12	1.10
Trachinotus cayennensis	0.60	6	0.47
Sphyræna guachancho	0.60	4	0.47
Lutjanus synagris	0.60	4	0.47
Cynoscion jamaicensis	0.30	6	0.23
Lagocephalus laevis	0.30	4	0.23
Chloroscombrus chrysurus	0.00	4	
Total	127.70	100.00	

PROJECT STATION: 327
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 620
 start stop duration Long W 5604
 TIME : 13:53 14:25 32 (min) Purpose code: 3
 LOG : 9338.70 9340.20 1.50 Area code : 1
 FDEPTH: 30 33 GearCond.code:
 BDEPTH: 30 33 Validity code:
 Towing dir: 291° Wire out: 200 m Speed: 25 kn*10

Sorted: 57 Kg Total catch: 1074.30 CATCH/HOUR: 2014.31

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chloroscombrus chrysurus	941.63	7258	46.75
Sphyræna picudilla	810.38	1609	40.23
Lutjanus synagris	141.19	201	7.01
Scomberomorus brasiliensis	68.81	99	3.42
Loligo pealii	29.44	1575	1.46
Orthopristis ruber	9.75	66	0.48
Opisthonema oglinum	6.56	66	0.33
Selene vomer	6.56	99	0.33
Eucinostomus argenteus	0.00	34	
Total	2014.32	100.01	

PROJECT STATION: 328
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 609
 start stop duration Long W 5625
 TIME : 16:40 17:10 30 (min) Purpose code: 3
 LOG : 9362.20 9363.50 1.30 Area code : 1
 FDEPTH: 20 20 GearCond.code:
 BDEPTH: 20 20 Validity code:
 Towing dir: 290° Wire out: 100 m Speed: 30 kn*10

Sorted: 67 Kg Total catch: 108.20 CATCH/HOUR: 216.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichiurus lepturus	67.60	162	31.24
Hemicaranx amblyrhynchus	32.60	146	15.06
Scomberomorus brasiliensis	25.60	12	11.83
Pomacanthus atratus	25.00	16	11.55
Engraulis eurystole	25.00	4290	11.55
Trichiurus lepturus	10.80	2088	4.99
Papilius paru	6.00	96	2.77
Oligopistes saliens	5.00	6	2.68
Sphyræna guachancho	3.00	8	1.39
Bagre bagre	2.60	10	1.20
Sphyrna tiburo	2.60	7	1.20
Pellona harroweri	2.00	50	0.92
Rhizoprionodon porosus	2.00	2	0.92
Harengula jaguana	1.60	50	0.74
Odontogadus mucronatus	1.60	100	0.74
Anchoa mitchilli	1.00	146	0.46
Bagre marinus	1.00	6	0.46
Sphyræna picudilla	0.60	2	0.28
Chloroscombrus chrysurus	0.00	6	
Total	216.40	99.98	

PROJECT STATION: 329
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 615
 start stop duration Long W 5632
 TIME : 18:00 18:30 30 (min) Purpose code: 3
 LOG : 9370.00 9372.00 1.20 Area code : 1
 FDEPTH: 23 24 GearCond.code:
 BDEPTH: 23 24 Validity code:
 Towing dir: 290° Wire out: 100 m Speed: 25 kn*10

Sorted: 31 Kg Total catch: 160.25 CATCH/HOUR: 320.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus synagris	100.00	174	31.45
Chirocentrodon bleekeri	58.00	24000	18.35
Pellona harroweri	37.20	828	11.61
Engraulis eurystole	20.40	6552	6.37
Sphyræna guachancho	18.00	26	5.07
Scomberomorus brasiliensis	17.00	8	5.30
Trichiurus lepturus	15.00	42	4.68
Pomadasys coarctatus	10.20	60	3.18
Loligo plei	9.00	216	2.81
Chaetodipterus faber	8.40	36	2.62
Hemicaranx amblyrhynchus	6.60	42	2.06
Carcharias limbatus	5.40	6	1.68
Opisthonema oglinum	4.20	60	1.31
Cynoscion jamaicensis	2.10	12	0.66
Anchoa mitchilli	1.80	106	0.56
Chloroscombrus chrysurus	1.80	36	0.56
Opisthonema oglinum	0.90	162	0.28
Priacanthus arenatus	0.90	6	0.28
Dactylopterus volitans	0.60	6	0.19
Eucinostomus sp	0.30	6	0.09
Harengula jaguana	0.30	6	0.09
Total	320.50	100.00	

R/V DR. FRITZJOF HANSEN PROJECT STATION: 330

CATCH DATA PROJECT STATION: 330
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 628
 start stop duration Long W 5622
 TIME : 00112 00112 30 (min) Purpose code: 3
 LOG : 9389.80 9391.10 1.30 Area code : 1
 FDEPTH: 30 29 GearCond.code:
 BDEPTH: 30 29 Validity code:
 Towing dir: 290° Wire out: 200 m Speed: 25 kn*10

Sorted: 66 Kg Total catch: 166.80 CATCH/HOUR: 333.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Upeneus parvus	164.40	11640	49.28
Eucinostomus argenteus	82.00	12920	24.58
Cynoscion jamaicensis	31.60	120	9.47
Hemicaranx amblyrhynchus	15.00	70	4.50
Sphyræna guachancho	7.60	16	2.28
Chloroscombrus chrysurus	6.60	166	1.98
Haemulon boschmae	6.60	1150	1.98
Saurida sp	5.00	430	1.50
Priacanthus arenatus	5.00	130	1.50
Priacanthus arenatus	5.00	10	1.50
Penaeus brasiliensis	2.00	46	0.60
Porichthys sp	1.60	230	0.48
Penaeus notialis	1.00	16	0.30
HEMIRAMPHIDAE	0.20	2	0.06
Penaeus subtilis	0.00	2	
Lepophidium sp	0.00	36	
Total	333.60	100.01	

R/V DR. FRITZJOF HANSEN PROJECT STATION: 331

CATCH DATA PROJECT STATION: 331
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 629
 start stop duration Long W 5629
 TIME : 00113 00113 30 (min) Purpose code: 3
 LOG : 9397.80 9399.20 1.40 Area code : 1
 FDEPTH: 28 28 GearCond.code:
 BDEPTH: 28 28 Validity code:
 Towing dir: 75° Wire out: 200 m Speed: 25 kn*10

Sorted: 27 Kg Total catch: 54.40 CATCH/HOUR: 100.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Haemulon steindachneri	26.00	192	23.90
Lutjanus synagris	24.00	188	22.06
Opisthonema oglinum	10.00	276	9.19
Priacanthus arenatus	6.00	52	5.51
Acanthostracion quadricornis	6.00	56	5.51
Diplactrum fornosum	4.40	32	4.04
Haemulon boschmae	4.00	412	3.68
Rhinobatos sp	4.00	4	3.68
Chloroscombrus chrysurus	4.00	144	3.68
Upeneus parvus	4.00	140	3.68
Chaetodipterus faber	2.40	8	2.21
Rhomboplites aurorubens	2.00	16	1.84
Loligo plei	1.60	60	1.47
Dactylopterus volitans	1.60	16	1.47
Sardinella aurita	1.20	40	1.10
Lepophidium sp	1.20	72	1.10
Diodon hystrix	1.20	8	1.10
Penaeus brasiliensis	0.80	20	0.74
Porichthys sp	0.80	92	0.74
SCORPAENIDAE	0.80	8	0.74
Ogcocephalus nasutus	0.00	16	0.74
Sphyræna picudilla	0.00	4	0.74
Eucinostomus argenteus	0.40	28	0.37
Saurida sp	0.40	52	0.37
Haemulon aurolineatum	0.40	8	0.37
CYNOGLOSSIDAE	0.00	8	
Engyophris sp	0.00	16	
Total	100.80	100.03	

PROJECT STATION: 332
 DATE: 12/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 728
 start stop duration Long W 5649
 TIME : 06:40 07:00 20 (min) Purpose code: 3
 LOG : 9478.00 9478.00 0.60 Area code : 1
 FDEPTH: 80 81 GearCond.code:
 BDEPTH: 80 81 Validity code:
 Towing dir: 295° Wire out: 450 m Speed: 25 kn*10

Sorted: 14 Kg Total catch: 14.15 CATCH/HOUR: 42.45

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus purpureus	29.40	3	69.26
Rhomboplites aurorubens	4.65	186	10.95
Pristigaster macropthalmus	4.50	129	10.60
Loligo plei	3.90	129	9.19
Total	42.45	100.00	

PROJECT STATION: 333
 DATE: 13/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 720 Long W 5652
 start stop duration Purpose code: 3
 TIME : 08:11 08:41 30 (min) Area code : 1
 LOG : 9400.60 9409.90 1.30 GearCond.code: 1
 FDEPTH: 58 59 Validity code:
 DDEPTH: 58 59
 Towing dir: 300° Wire out: 300 m Speed: 25 kn*10
 Sorted: 7 Kg Total catch: 7.60 CATCH/HOUR: 15.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhizoprionodon porosus	5.40	2	35.53	
Caranx limbatus	4.00	2	26.32	
Loligo plei	2.00	134	18.42	95
Rhombolites aurorubens	1.20	26	7.89	96
Scyllarides delfosi	0.00	2	5.26	
Acanthostracion quadricornis	0.40	2	2.63	
Pristipomoides macrophthalmus	0.30	4	1.97	
Priacanthus arenatus	0.20	2	1.32	
Dactylopterus volitans	0.10	2	0.66	
Total	15.20		100.00	

PROJECT STATION: 338
 DATE: 13/ 5/00 GEAR TYPE: PT No:4 POSITION: Lat N 621 Long W 5657
 start stop duration Purpose code: 1
 TIME : 18:37 19:07 30 (min) Area code : 1
 LOG : 9560.00 9568.50 1.70 GearCond.code: 1
 FDEPTH: 0 0 Validity code:
 DDEPTH: 23 22
 Towing dir: 276° Wire out: 50 m Speed: 30 kn*10
 Sorted: 37 Kg Total catch: 173.40 CATCH/HOUR: 346.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
ENGRAULIDIDAE	110.40		31.83	
Pellona harroweri	99.20	7432	28.60	110
Trichiurus lepturus	40.00	400	11.53	
Scomberomorus cavalla	26.60	4	8.25	111
Anchoa mitchilli	22.40	2480	6.46	113
Scomberomorus brasiliensis	18.00	6	5.19	112
Hemicaranx amblyrhynchus	12.00	32	3.46	
Chaetodipterus faber	6.60	2	1.90	
Opisthonema oglinum	2.40	544	0.69	
Peprilus paru	2.40	32	0.69	
Rhizoprionodon porosus	2.40	8	0.69	
Harengula jaguana	2.40	32	0.69	
Chirocentrodon bleekeri	0.00	56		
Penaeus subtilis	0.00	64		
Penaeus notialis	0.00	8		
Total	346.80		99.98	

PROJECT STATION: 334
 DATE: 13/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 710 Long W 5654
 start stop duration Purpose code: 3
 TIME : 10:02 10:32 30 (min) Area code : 1
 LOG : 9501.60 9502.70 1.10 GearCond.code: 1
 FDEPTH: 47 48 Validity code:
 DDEPTH: 47 48
 Towing dir: 290° Wire out: 300 m Speed: 25 kn*10
 Sorted: 31 Kg Total catch: 100.90 CATCH/HOUR: 361.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Decapterus punctatus	23.40	7512	58.98	99
Sardinella aurita	82.40	1608	22.70	100
Rhombolites aurorubens	18.60	396	5.14	98
Lutjanus analis	18.00	2	4.98	97
Sphyrna picudilla	11.00	56	3.04	
Eucinostomus argenteus	7.60	122	2.10	
Priacanthus arenatus	7.60	132	2.10	
Chloroscombrus chrysurus	2.20	66	0.61	
Scyllarides delfosi	1.00	2	0.28	
Total	361.80		100.00	

PROJECT STATION: 339
 DATE: 14/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 624 Long W 5708
 start stop duration Purpose code: 3
 TIME : 05:26 05:56 30 (min) Area code : 2
 LOG : 9579.00 9580.40 1.40 GearCond.code: 2
 FDEPTH: 20 19 Validity code:
 DDEPTH: 20 19
 Towing dir: 313° Wire out: 100 m Speed: 30 kn*10
 Sorted: 26 Kg Total catch: 197.60 CATCH/HOUR: 395.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dasyatis geijskosi	90.00	28	22.77	
Shrimps, larvae	74.40		18.83	
Stollifer microps	45.60	2376	11.54	
Macrondon ancyllodon	42.20	364	10.60	114
Macrondon ancyllodon	37.60	22800	9.51	
Rhinoptera bonasus	23.40	2	5.92	
Trichiurus lepturus	21.60	1200	5.47	
Microgogonias furnieri	18.80	16	4.76	115
Anchoa spindicer	16.00	2112	4.05	
Arius grandicassis	4.00	2	1.01	
SCIAENIDAE	3.20	800	0.81	
Pomadasys corvinaeformis	2.40	24	0.61	
Pellona harroweri	2.40	104	0.61	
Penaeus subtilis	2.00	86	0.51	
Arius sp	2.00	4	0.51	
Nehris microps	2.00	6	0.51	
Lagodon rhomboides	1.60	4	0.40	
Mustelus sp	1.00	2	0.25	
Paralichthys brasiliensis	1.00	4	0.25	
Bagre bagre	0.80	104	0.20	
Peprilus paru	0.80	6	0.20	
Gymnura micrura	0.60	2	0.15	
Sphyrna tudes	0.60	2	0.15	
Penaeus schmitti	0.40	8	0.10	
Larimus breviceps	0.40	2	0.10	
Rhinobatos porcellana	0.40	2	0.10	
Penaeus notialis	0.00	2		
Paralichthys elegans	0.00	56		
Opisthonema oglinum	0.00	24		
Total	395.20		100.00	

PROJECT STATION: 335
 DATE: 13/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 651 Long W 5651
 start stop duration Purpose code: 3
 TIME : 12:54 13:24 30 (min) Area code : 1
 LOG : 9525.30 9526.50 1.20 GearCond.code: 1
 FDEPTH: 37 37 Validity code:
 DDEPTH: 37 37
 Towing dir: 253° Wire out: 200 m Speed: 20 kn*10
 Sorted: 7 Kg Total catch: 7.45 CATCH/HOUR: 14.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	5.00	296	33.56	101
Chloroscombrus chrysurus	4.40	158	29.53	102
Selar crumenophthalmus	1.70	40	11.41	103
Lutjanus synagris	1.00	10	6.71	
Sardinella aurita	0.80	8	5.37	
Eucinostomus argenteus	0.70	14	4.70	
Opisthonema oglinum	0.70	6	4.70	
Rhombolites aurorubens	0.60	12	4.03	
Total	14.90		100.00	

PROJECT STATION: 340
 DATE: 14/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 649 Long W 5700
 start stop duration Purpose code: 3
 TIME : 08:25 08:55 30 (min) Area code : 2
 LOG : 9604.40 9605.90 1.50 GearCond.code: 2
 FDEPTH: 26 27 Validity code:
 DDEPTH: 26 27
 Towing dir: 325° Wire out: 150 m Speed: 30 kn*10
 Sorted: 20 Kg Total catch: 28.45 CATCH/HOUR: 56.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	31.00		54.48	116
Scomberomorus cavalla	18.00	1652	31.63	117
Eschmoeia nautraris	5.00	4	8.79	
Priacanthus arenatus	0.60	16	1.05	
Lutjanus synagris	0.60	8	1.05	
Syacium micrurum	0.40	2	0.70	
Acanthostracion quadricornis	0.40	6	0.70	
Macrondon ancyllodon	0.30	2	0.53	
Upeneus parvus	0.20	14	0.35	
Selar crumenophthalmus	0.20	4	0.35	
Chloroscombrus chrysurus	0.10	2	0.18	
Lutjanus purpuraceus	0.10	2	0.18	
Alectis ciliaris	0.00	2		
Decapterus punctatus	0.00	2		
Total	56.90		99.99	

PROJECT STATION: 336
 DATE: 13/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 636 Long W 5650
 start stop duration Purpose code: 3
 TIME : 15:14 15:44 30 (min) Area code : 1
 LOG : 9543.20 9544.80 1.60 GearCond.code: 1
 FDEPTH: 28 27 Validity code:
 DDEPTH: 28 27
 Towing dir: 185° Wire out: 150 m Speed: 30 kn*10
 Sorted: 31 Kg Total catch: 186.60 CATCH/HOUR: 373.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	120.00	4500	32.15	
Chloroscombrus chrysurus	90.00	1740	24.12	
Selar crumenophthalmus	48.00	960	12.06	104
Loligo plei	42.00	2750	11.25	105
Decapterus punctatus	36.00	1116	9.65	
Lutjanus synagris	7.20	60	1.93	
Scomberomorus brasiliensis	6.00	12	1.91	
Selene setipinnis	6.00	24	1.61	
Aluterus monoceros	4.80	12	1.29	
Calamus pennatula	4.80	12	1.29	
Orthopristis ruber	3.60	12	0.96	
Priacanthus arenatus	2.40	48	0.64	
Lutjanus mahogoni	1.20	12	0.32	
Opisthonema oglinum	1.20	12	0.32	
Acanthostracion quadricornis	0.00	12		
Total	373.20		100.00	

PROJECT STATION: 341
 DATE: 14/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 700 Long W 5716
 start stop duration Purpose code: 3
 TIME : 10:10 10:40 30 (min) Area code : 2
 LOG : 9610.00 9619.70 1.70 GearCond.code: 2
 FDEPTH: 28 27 Validity code:
 DDEPTH: 28 27
 Towing dir: 215° Wire out: 150 m Speed: 30 kn*10
 Sorted: 67 Kg Total catch: 66.90 CATCH/HOUR: 133.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	50.00	1414	37.37	118
Decapterus punctatus	30.00	860	22.42	119
Scomberomorus cavalla	26.00	4	19.43	
Loligo plei	26.00	1300	19.43	120
Upeneus parvus	1.00	60	0.75	
Selar crumenophthalmus	0.40	38	0.30	
Priacanthus arenatus	0.40	6	0.30	
Eucinostomus argenteus	0.00	4		
Total	133.80		100.00	

PROJECT STATION: 337
 DATE: 13/ 5/00 GEAR TYPE: BT No:1 POSITION: Lat N 626 Long W 5651
 start stop duration Purpose code: 3
 TIME : 16:40 17:10 30 (min) Area code : 1
 LOG : 9553.00 9554.60 1.60 GearCond.code: 1
 FDEPTH: 25 26 Validity code:
 DDEPTH: 25 26
 Towing dir: 273° Wire out: 150 m Speed: 30 kn*10
 Sorted: 18 Kg Total catch: 1000.00 CATCH/HOUR: 2000.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	1715.00	1770	85.75	106
Scomberomorus cavalla	177.00	62	8.85	107
Hemicaranx amblyrhynchus	37.00	272	1.85	108
Opisthonema oglinum	17.60	222	0.88	
Chaetodipterus faber	17.00	74	0.85	
Loligo sp	12.60	640	0.63	
Scomberomorus brasiliensis	8.00	4	0.40	109
Orthopristis ruber	6.20	22	0.31	
Haemulon steindachneri	5.60	22	0.28	
Chloroscombrus chrysurus	2.80	62	0.14	
Acanthostracion quadricornis	1.20	6	0.06	
Priacanthus arenatus	0.00	6		
Upeneus parvus	0.00	18		
Total	2000.00		100.00	

PROJECT STATION: 342
 DATE: 14/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 651 Long W 5722
 TIME : 11:40 start stop duration Purpose code: 3
 LOG : 19627.80 9629.40 1.60 Area code : 2
 FDEPTH: 24 22 GearCond.code: 1
 BDEPTH: 24 22 Validity code:
 Towing dir: 208° Wire out: 150 m Speed: 30 kn*10

Sorted: 21 Kg Total catch: 74.80 CATCH/HOUR: 149.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Scomberomorus brasiliensis	34.00	52	22.73
Lutjanus synagris	30.00	112	20.05
Sardinella aurita	29.60	10982	19.79
Chloroscombrus chrysurus	26.00	234	17.38
Loligo plei	15.20	1438	10.16
Alactis siliaris	4.40	16	2.94
Chaetodipterus faber	4.40	12	2.94
Scomberomorus cavalla	2.80	4	1.87
Haemulon plumieri	1.20	4	0.80
Selar crumenophthalmus	0.80	12	0.53
Opisthonema oglinum	0.80	4	0.53
Hemicaranx amblyrhynchus	0.40	8	0.27
Ginglymostoma cirratum	0.00	4	
Total	149.60		99.99

PROJECT STATION: 346
 DATE: 15/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 746 Long W 5719
 TIME : 07:20 start stop duration Purpose code: 3
 LOG : 9777.60 9779.00 1.40 Area code : 2
 FDEPTH: 74 70 GearCond.code: 1
 BDEPTH: 74 70 Validity code:
 Towing dir: 275° Wire out: 400 m Speed: 30 kn*10

Sorted: 23 Kg Total catch: 23.50 CATCH/HOUR: 47.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Rhomboplites aurorubens	28.00	640	61.28
Selar crumenophthalmus	8.00	94	17.02
Pristipomoides macrophthalmus	5.00	112	10.64
Loligo plei	4.00	208	8.51
Synodus sp	0.60	8	1.28
Ariomma regulus	0.30	4	0.64
Trachurus lathami	0.20	4	0.43
Priacanthus arenatus	0.10	4	0.21
Penaeus brasiliensis	0.00	2	
Total	47.00		100.01

PROJECT STATION: 343
 DATE: 14/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 645 Long W 5727
 TIME : 12:53 start stop duration Purpose code: 3
 LOG : 9634.40 9635.80 1.40 Area code : 2
 FDEPTH: 19 19 GearCond.code: 1
 BDEPTH: 19 19 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 30 kn*10

Sorted: 37 Kg Total catch: 219.60 CATCH/HOUR: 439.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Chaetodipterus faber	154.40	120	37.43
Anchovia clupeioides	102.00	27286	23.22
Papirus paru	43.20	516	9.84
Hemicaranx amblyrhynchus	42.00	240	9.56
Trichurus lepturus	30.00	684	6.83
Sphyræna guachancho	18.00	24	4.10
Scomberomorus brasiliensis	13.20	12	3.01
Rhizoprionodon lalandii	12.00	48	2.73
Opisthonema oglinum	6.00	60	1.37
Solea setpinis	2.40	12	0.55
Pellona harroweri	2.40	100	0.55
Oligoplites saliens	1.20	12	0.27
Chloroscombrus chrysurus	1.20	24	0.27
Odontognathus mucronatus	1.20	12	0.27
Harengula jaguana	0.00	24	
Total	439.20		100.00

PROJECT STATION: 347
 DATE: 15/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 743 Long W 5731
 TIME : 09:02 start stop duration Purpose code: 3
 LOG : 9789.40 9790.60 1.20 Area code : 2
 FDEPTH: 62 60 GearCond.code: 1
 BDEPTH: 62 60 Validity code:
 Towing dir: 350° Wire out: 300 m Speed: 25 kn*10

Sorted: 4 Kg Total catch: 3.90 CATCH/HOUR: 7.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Loligo plei	3.00	144	38.46
Pristipomoides macrophthalmus	2.20	40	28.21
Priacanthus arenatus	0.80	26	10.26
Scyllarides dolfosi	0.80	2	10.26
Rhomboplites aurorubens	0.60	8	7.69
Bothus lunatus	0.20	2	2.56
Haemulon boschmae	0.10	2	1.28
Selar crumenophthalmus	0.10	4	1.28
Acanthostracion quadricornis	0.00	2	
Lutjanus purpureus	0.00	2	
Total	7.80		100.00

PROJECT STATION: 344
 DATE: 14/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 659 Long W 5735
 TIME : 16:31 start stop duration Purpose code: 3
 LOG : 9663.90 9665.40 1.50 Area code : 2
 FDEPTH: 24 24 GearCond.code: 1
 BDEPTH: 24 24 Validity code:
 Towing dir: 25° Wire out: 1503 m Speed: 35 kn*10

Sorted: 59 Kg Total catch: 236.00 CATCH/HOUR: 472.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Scomberomorus brasiliensis	310.40	640	65.76
Eucinostomus argenteus	56.00	1048	11.86
Loligo sp	46.40	4450	9.83
Hemicaranx amblyrhynchus	24.00	128	5.08
Lutjanus synagris	9.60	72	2.03
Opisthonema oglinum	8.00	144	1.69
ENGRAULIDIDAE	5.60	3104	1.19
Trichurus lepturus	4.00	32	0.85
Scomberomorus brasiliensis	2.40	408	0.51
Rhizoprionodon lalandii	1.60	8	0.34
Selar crumenophthalmus	1.60	32	0.34
Chloroscombrus chrysurus	1.60	24	0.34
Sardinella aurita	0.80	52	0.17
Opisthonema oglinum	0.00	64	
Total	472.00		99.99

PROJECT STATION: 346
 DATE: 15/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 755 Long W 5733
 TIME : 10:52 start stop duration Purpose code: 3
 LOG : 9802.10 9803.50 1.40 Area code : 2
 FDEPTH: 77 77 GearCond.code: 1
 BDEPTH: 77 77 Validity code:
 Towing dir: 290° Wire out: 400 m Speed: 28 kn*10

Sorted: 16 Kg Total catch: 57.57 CATCH/HOUR: 115.14

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Selar crumenophthalmus	41.30	718	35.87
Priacanthus arenatus	38.50	1866	33.44
Haemulon boschmae	9.10	372	7.90
Trachurus lathami	8.40	316	7.30
Rhomboplites aurorubens	7.70	168	6.69
Loligo plei	2.10	78	1.82
Scyllarides dolfosi	2.10	8	1.82
Ariomma regulus	1.40	22	1.22
Upeneus parvus	1.40	22	1.22
Sardinella aurita	1.04	14	0.90
Pristipomoides macrophthalmus	0.70	14	0.61
Decapterus punctatus	0.70	154	0.61
Ariomma bondi	0.70	22	0.61
Diplectrum formosum	0.00	8	
Total	115.14		100.01

PROJECT STATION: 345
 DATE: 14/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 706 Long W 5731
 TIME : 18:02 start stop duration Purpose code: 3
 LOG : 9671.10 9672.40 1.30 Area code : 2
 FDEPTH: 25 25 GearCond.code: 1
 BDEPTH: 25 25 Validity code:
 Towing dir: 30° Wire out: 150 m Speed: 25 kn*10

Sorted: 78 Kg Total catch: 78.10 CATCH/HOUR: 156.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Hemicaranx amblyrhynchus	64.00	650	40.97
Upeneus parvus	28.00	1176	17.93
Opisthonema oglinum	24.00	614	15.36
Loligo plei	20.00	2080	12.80
Selar crumenophthalmus	6.00	124	3.84
Penaeus brasiliensis	3.40	74	2.18
Decapterus punctatus	2.60	70	1.66
Cynoscion jamaicensis	2.60	14	1.66
Eucinostomus argenteus	2.20	58	1.41
Echeneis remora	1.60	4	1.02
Sphyræna guachancho	0.60	2	0.38
Rhinobatos percellens	0.60	2	0.38
Priacanthus arenatus	0.40	14	0.26
Diplectrum formosum	0.20	2	0.13
Saurida sp	0.00	16	
Penaeus notialis	0.00	2	
Sardinella aurita	0.00	4	
Total	156.20		99.98

PROJECT STATION: 349
 DATE: 15/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 752 Long W 5752
 TIME : 13:12 start stop duration Purpose code: 3
 LOG : 9821.70 9823.00 2.10 Area code : 2
 FDEPTH: 50 48 GearCond.code: 1
 BDEPTH: 50 48 Validity code:
 Towing dir: 122° Wire out: 300 m Speed: 40 kn*10

Sorted: 46 Kg Total catch: 46.10 CATCH/HOUR: 92.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Rhomboplites aurorubens	34.40	116	37.31
Lutjanus purpureus	24.00	78	26.90
Lutjanus synagris	6.40	12	6.94
Calamus pennatula	6.20	10	6.72
Pristipomoides macrophthalmus	4.60	58	4.99
Eucinostomus argenteus	4.40	54	4.77
Aluterus monoceros	2.40	8	2.60
Balistes vetula	2.20	2	2.39
Loligo plei	2.20	152	2.39
Selar crumenophthalmus	1.40	12	1.52
Priacanthus arenatus	1.20	6	1.30
Chloroscombrus chrysurus	0.60	14	0.65
Calamus penna	0.60	6	0.65
Acanthostracion quadricornis	0.40	4	0.43
Prionotus roseus	0.20	2	0.22
Decapterus punctatus	0.20	4	0.22
Equetus lanceolatus	0.00	2	
Total	92.20		100.00

PROJECT STATION: 350
 DATE: 15/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 743 Long W 5744
 start stop duration
 TIME : 14:59 15:29 30 (min) Purpose code: 3
 LOG : 9035.40 9037.50 2.10 Area code : 2
 FDEPTH: 45 44 GearCond.code:
 BDEPTH: 45 44 Validity code:
 Towing dir: 135° Wire out: 250 m Speed: 40 kn*10
 Sorted: 105 Kg Total catch: 105.10 CATCH/HOUR: 210.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus purpureus	120.00	132	57.09
Balistes vetula	26.60	14	12.65
Aluterus monoceros	17.00	6	8.09
Scomberomorus cavalla	12.00	2	5.71
Caranx crysos	6.00	10	2.85
Rhomboplites aurorubens	5.00	56	2.38
Lutjanus synagris	4.60	8	2.19
Calamus pennatula	4.40	8	2.09
Lutjanus analis	4.00	34	1.83
Priacanthus arenatus	2.60	8	1.24
Echeneis remora	1.60	4	0.76
Selene vomer	1.40	12	0.67
Scomberomorus brasiliensis	1.20	2	0.57
Loligo plei	1.00	30	0.48
Rhizoprionodon lalandii	1.00	2	0.48
Sphyræna guachancho	0.40	4	0.19
Pistula petimba	0.40	2	0.19
Chloroscombrus chrysurus	0.20	2	0.10
Acanthostracion quadricornis	0.20	4	0.10
Pristipomoides macrophthalmus	0.20	4	0.10
Eucinostomus argentatus	0.20	4	0.10
Haemulon steindachneri	0.20	4	0.10
Total	210.20	100.03	

PROJECT STATION: 354
 DATE: 15/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 722 Long W 5800
 start stop duration
 TIME : 22:50 23:20 30 (min) Purpose code: 3
 LOG : 9893.60 9895.40 1.80 Area code : 2
 FDEPTH: 23 24 GearCond.code:
 BDEPTH: 23 24 Validity code:
 Towing dir: 275° Wire out: 100 m Speed: 35 kn*10
 Sorted: 23 Kg Total catch: 131.90 CATCH/HOUR: 263.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macrodon ancylodon	60.00	7960	22.74
Chirocentrodon bleakerianus	56.00	24320	21.23
Macrodon ancylodon	37.50	256	14.22
Diapterus rhombeus	32.00	120	12.13
Trichurus lepturus	25.00	670	9.48
Bagre bagre	12.00	80	4.55
Isopisthus parvipinnis	11.40	310	4.12
Cynoscion jamaicensis	10.00	160	3.78
Caranx crysos	8.00	40	3.03
Odontognathus mucronatus	4.00	640	1.52
Selene setapinnis	3.40	20	1.29
Pellona harroweri	2.00	146	0.76
Thalassophryne natteneri	1.00	6	0.38
Porichthys sp	0.50	16	0.19
Penaeus subtilis	0.50	26	0.19
Penaeus notialis	0.50	6	0.19
Squilla sp	0.00	40	
Opisthonema oglinum	0.00	40	
Chloroscombrus chrysurus	0.00	160	
Prionotus sp	0.00	6	
Haemulon sp	0.00	6	
Acanthostracion quadricornis	0.00	6	
Selene vomer	0.00	6	
Stellifer sp	0.00	6	
Total	263.80	100.01	

PROJECT STATION: 351
 DATE: 15/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 736 Long W 5750
 start stop duration
 TIME : 16:20 16:50 30 (min) Purpose code: 3
 LOG : 9044.50 9046.30 1.80 Area code : 2
 FDEPTH: 28 26 GearCond.code:
 BDEPTH: 28 26 Validity code:
 Towing dir: 131° Wire out: 200 m Speed: 40 kn*10
 Sorted: 37 Kg Total catch: 92.25 CATCH/HOUR: 184.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	15.00	5176	62.33
Loligo plei	18.00	864	9.76
Harengula jaguana	15.00	376	8.13
Sardinella aurita	12.50	430	6.78
Opisthonema oglinum	8.50	196	4.61
Selar crumenophthalmus	7.50	100	4.07
Hemicaranx amblyrhynchus	5.00	46	2.71
Upeneus parvus	2.00	76	1.08
Caranx crysos	0.50	6	0.27
Priacanthus arenatus	0.50	16	0.27
Lepophidium sp	0.00	6	
Total	184.50	100.01	

PROJECT STATION: 355
 DATE: 16/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 741 Long W 5758
 start stop duration
 TIME : 01:49 02:19 30 (min) Purpose code: 3
 LOG : 9916.90 9917.70 0.80 Area code : 2
 FDEPTH: 23 21 GearCond.code:
 BDEPTH: 23 21 Validity code:
 Towing dir: 299° Wire out: 100 m Speed: 15 kn*10
 Sorted: 13 Kg Total catch: 36.70 CATCH/HOUR: 77.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Opisthonema oglinum	41.40	1324	53.49
Upeneus parvus	8.40	1092	10.85
Chloroscombrus chrysurus	7.00	996	10.08
Selar crumenophthalmus	6.60	60	8.53
Hemicaranx amblyrhynchus	5.40	66	6.98
Saurida sp	1.20	192	1.55
Porichthys sp	1.20	60	1.55
Sphyræna guachancho	1.20	12	1.55
Sardinella aurita	1.20	10	1.55
Scomberomorus brasiliensis	1.20	24	1.55
Penaeus notialis	1.00	44	1.29
Loligo plei	0.60	126	0.78
Penaeus brasiliensis	0.20	6	0.26
Prionotus sp	0.00	12	
Engraulis eurystole	0.00	12	
Diapterus rhombeus	0.00	6	
Selene vomer	0.00	6	
Harengula jaguana	0.00	6	
Paxocoelus brachypterus	0.00	6	
Penaeus subtilis	0.00	2	
Total	77.40	100.01	

PROJECT STATION: 352
 DATE: 15/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 718 Long W 5743
 start stop duration
 TIME : 18:49 19:19 30 (min) Purpose code: 3
 LOG : 9865.80 9867.20 1.40 Area code : 2
 FDEPTH: 22 22 GearCond.code:
 BDEPTH: 22 22 Validity code:
 Towing dir: 100° Wire out: 150 m Speed: 30 kn*10
 Sorted: 31 Kg Total catch: 31.25 CATCH/HOUR: 62.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Hemicaranx amblyrhynchus	17.60	92	28.16
Chloroscombrus chrysurus	9.00	260	14.40
Loligo plei	5.00	108	8.00
Porichthys sp	4.40	310	7.04
Upeneus parvus	4.00	172	6.40
Caranx crysos	3.80	16	6.08
Chaetodipterus faber	3.00	18	4.80
Saurida sp	2.00	108	3.20
Lepophidium sp	2.00	52	3.20
Opisthonema oglinum	2.00	50	3.20
Echeneis remora	1.60	2	2.56
Harengula jaguana	1.60	30	2.56
Sphyræna guachancho	1.20	2	1.92
Rachycontron canadus	1.00	2	1.60
Cynoscion jamaicensis	0.80	4	1.28
Prionotus punctatus	0.60	22	0.96
Penaeus brasiliensis	0.40	14	0.64
Selar crumenophthalmus	0.40	2	0.64
Haemulon steindachneri	0.40	2	0.64
Syacium micrurum	0.40	6	0.64
Lutjanus synagris	0.40	4	0.64
Lagocephalus laevigatus	0.30	2	0.48
Penaeus notialis	0.20	8	0.32
Orthopristis ruber	0.20	2	0.32
Diplacrum formosum	0.20	2	0.32
ANNEHARIDAE	0.00	2	
Penaeus subtilis	0.00	2	
Scorpaena sp.	0.00	2	
Ogocephalus sp	0.00	2	
CONGRIDAE	0.00	2	
Symphurus sp	0.00	2	
Total	62.50	100.00	

PROJECT STATION: 356
 DATE: 16/ 5/80 GEAR TYPE: BT No:1 POSITION: Lat N 725 Long W 5814
 start stop duration
 TIME : 05:35 06:05 30 (min) Purpose code: 3
 LOG : 9939.60 9940.80 1.20 Area code : 2
 FDEPTH: 17 17 GearCond.code:
 BDEPTH: 17 17 Validity code:
 Towing dir: 17° Wire out: 100 m Speed: 25 kn*10
 Sorted: 31 Kg Total catch: 445.90 CATCH/HOUR: 891.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Dasyatis geljeskesi	100.00	36	20.18
Micropogonias furnieri	119.00	166	13.34
Macrodon ancylodon	112.00	704	12.56
Rhinoptera bonasus	96.00	24	10.76
Trichurus lepturus	63.00	1288	7.06
Harengula jaguana	56.00	1526	6.28
Cynoscion virescens	46.00	14	5.16
Stellifer sp	35.00	1904	3.92
SCIENIIDAE	25.20		2.83
S H R I M P S	19.60		2.20
Nebria microps	18.20	154	2.04
Chaetodipterus faber	15.20	6	1.70
Peprilus paru	14.00	210	1.57
Bagre bagre	14.00	42	1.57
Xiphopenaeus kroyeri	14.00	1660	1.57
Sphyrna tiburo	11.20	14	1.26
Rhizoprionodon porosus	9.80	28	1.10
Arius grandicassis	9.80	56	1.10
Sphyrna lewini	7.00	14	0.78
Hemicaranx amblyrhynchus	5.60	90	0.63
Penaeus schmitti	5.60	84	0.63
Penaeus subtilis	4.20	154	0.47
Gymnura micrura	3.00	4	0.34
Scomberomorus brasiliensis	2.80	14	0.31
Opisthonema oglinum	2.80	42	0.31
Isopisthus parvipinnis	1.40	28	0.16
Sphaeroides sp	1.40	14	0.16
Total	891.80		99.99

PROJECT STATION: 353
 DATE: 15/ 5/80 GEAR TYPE: FT No:4 POSITION: Lat N 719 Long W 5740
 start stop duration
 TIME : 20:15 20:45 30 (min) Purpose code: 1
 LOG : 9873.90 9875.30 1.40 Area code : 2
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 23 22 Validity code:
 Towing dir: 95° Wire out: 50 m Speed: 30 kn*10
 Sorted: 80 Kg Total catch: 361.30 CATCH/HOUR: 722.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	486.00	314280	67.26
ENGRAULIDAE	85.60		11.85
Harengula jaguana	45.00	1360	6.23
Hemicaranx amblyrhynchus	34.20	136	4.73
Selene setapinnis	22.60	54	3.13
Scomberomorus cavalla	22.60	36	3.13
Opisthonema oglinum	9.00	198	1.25
Selar crumenophthalmus	9.00	90	1.25
Caranx crysos	4.00	10	0.55
Sphyræna guachancho	2.80	10	0.39
Upeneus parvus	1.80	64	0.25
Total	722.60		100.02

DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 740 Long W 5819
 TIME : 07:14 start stop duration 30 (min) Purpose code: 3
 LOG : 19951.30 9952.70 1.40 Area code : 2
 FDEPTH: 22 22 GearCond.code: 3
 BDEPTH: 22 22 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 30 kn*10
 Sorted: 39 Kg Total catch: 195.50 CATCH/HOUR: 391.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Pellona harroweri	108.00	27.62	
Harengula jaguana	108.00	25.56	155
Anchoviella lepidentostole	36.00	9.21	
Chirocentron bloekerianus	24.00	6.14	
Peprilus paru	20.00	5.12	156
Scomberomorus brasiliensis	15.00	3.84	
Opisthonema oglinum	15.00	3.84	
Diaptorus rhombus	10.00	2.56	
Pomatomus saltatrix	10.00	2.56	
Trachinotus carolinus	10.00	2.56	
Trichurus lepturus	9.00	2.30	
Selene setapinnis	8.00	2.05	
Hemicarax amblyrhynchus	6.00	1.53	
Cynoscion jamaicensis	6.00	1.53	
Cynoscion virescens	5.00	1.28	
Micropogonias furnieri	5.00	1.28	
Sphyrna guachancho	4.00	1.02	
Stellifer sp	0.00		
Selene vomer	0.00		
Total	391.00	100.02	

PROJECT STATION: 361
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 800 Long W 5821
 TIME : 13:09 start stop duration 30 (min) Purpose code: 3
 LOG : 19990.30 9992.70 2.40 Area code : 2
 FDEPTH: 42 41 GearCond.code: 3
 BDEPTH: 42 41 Validity code:
 Towing dir: 135° Wire out: 250 m Speed: 45 kn*10
 Sorted: 19 Kg Total catch: 18.90 CATCH/HOUR: 37.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chloroscombrus chrysurus	14.00	1132	37.04
Eucinostomus argenteus	4.00	144	10.58
Sphyrna picudilla	3.80	20	10.05
Selene setapinnis	3.60	64	9.52
Saurida sp	2.80	26	7.41
Loligo plei	2.20	160	5.82
Peprilus paru	1.20	10	3.17
Penaeus notialis	1.00	28	2.65
Cynoponticus savanna	1.00	2	2.65
Prionotus punctatus	0.80	8	2.12
Lutjanus purpureus	0.80	6	2.12
Caranx crysos	0.60	2	1.59
Hemicarax amblyrhynchus	0.60	4	1.59
Scorpaena diapa	0.40	2	1.06
Cyclopssetta chittendeni	0.40	8	1.06
Lutjanus synagris	0.40	2	1.06
Porichthys sp	0.20	18	0.53
Penaeus subtilis	0.00	2	
Diplectrum radiale	0.00	4	
Upeneus parvus	0.00	8	
Symphurus diomedianus	0.00	2	
Total	37.80	100.02	

PROJECT STATION: 358
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 746 Long W 5832
 TIME : 08:54 start stop duration 26 (min) Purpose code: 3
 LOG : 19963.70 9965.10 1.40 Area code : 2
 FDEPTH: 15 15 GearCond.code: 3
 BDEPTH: 15 15 Validity code:
 Towing dir: 310° Wire out: 100 m Speed: 35 kn*10
 Sorted: 34 Kg Total catch: 160.20 CATCH/HOUR: 369.69

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Macrodon ancylodon	110.77	29.96	157
Nematopalaeon schmitti	87.69	23.72	
Cynoscion scoupa	28.85	7.80	
SCYAEINIDAE	23.08	6.24	
Xiphopenaeus kroyeri	23.08	6.24	
Cynoscion virescens	17.08	4.62	
Anchoa spinifer	13.85	3.75	158
Bagre bagre	11.08	3.00	
Nebria microps	10.15	2.75	
Micropogonias furnieri	6.92	1.87	
Stellifer sp	6.46	1.75	
Trichurus lepturus	6.46	1.75	
Chaetodipterus faber	3.46	0.94	
Peprilus paru	3.23	0.87	
ENGRAULIDIDAE	2.77	0.75	
Penaeus subtilis	2.77	0.75	
Symphurus sp	2.77	0.75	
Paralichthys brasiliensis	2.77	0.75	
Catengraulis edentulus	1.85	0.50	
Arius grandicaissis	1.85	0.50	
Batrachoides surinamensis	1.38	0.37	
Achirus lineatus	0.92	0.25	
Harengula jaguana	0.46	0.12	
Penaeus schmitti	0.00		
Torpedo sp	0.00		
Total	369.70	100.00	

PROJECT STATION: 362
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 810 Long W 5812
 TIME : 15:27 start stop duration 30 (min) Purpose code: 3
 LOG : 10.40 10.80 0.40 Area code : 2
 FDEPTH: 57 55 GearCond.code: 3
 BDEPTH: 57 55 Validity code:
 Towing dir: 280° Wire out: 350 m Speed: 10 kn*10
 Sorted: 5 Kg Total catch: 5.50 CATCH/HOUR: 11.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Loligo plei	6.40	272	58.18
Upeneus parvus	1.20	90	10.91
Priacanthus arenatus	1.00	30	9.09
Hemicarax amblyrhynchus	0.80	4	7.27
Loligo pealei	0.60	32	5.45
Echoneis remora	0.60	4	5.45
Selar crumenophthalmus	0.20	12	1.82
Trichurus lepturus	0.20	2	1.82
Chloroscombrus chrysurus	0.00	2	
Decapterus punctatus	0.00	4	
Total	11.00	99.99	

PROJECT STATION: 359
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 758 Long W 5821
 TIME : 11:05 start stop duration 30 (min) Purpose code: 3
 LOG : 9980.50 9982.20 1.70 Area code : 2
 FDEPTH: 25 28 GearCond.code: 3
 BDEPTH: 25 28 Validity code: 9
 Towing dir: 320° Wire out: 100 m Speed: 35 kn*10
 Sorted: 3 Kg Total catch: 3.00 CATCH/HOUR: 6.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Anchoviella lepidentostole	3.40	404	56.67
Scomberomorus brasiliensis	2.40	2	40.00
Chloroscombrus chrysurus	0.20	90	3.33
Stellifer sp	0.00	2	
Anchoa spinifer	0.00	2	
Hemicarax amblyrhynchus	0.00	4	
Harengula jaguana	0.00	2	
Selene setapinnis	0.00	6	
Peprilus paru	0.00	4	
Total	6.00	100.00	

PROJECT STATION: 363
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 813 Long W 5824
 TIME : 16:55 start stop duration 30 (min) Purpose code: 3
 LOG : 18.70 19.20 0.50 Area code : 2
 FDEPTH: 44 43 GearCond.code: 3
 BDEPTH: 44 43 Validity code:
 Towing dir: 281° Wire out: 250 m Speed: 10 kn*10
 Sorted: 111 Kg Total catch: 110.60 CATCH/HOUR: 221.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chloroscombrus chrysurus	168.00	4920	75.95
Opisthonema oglinum	38.40	628	17.36
Loligo plei	8.00	440	3.62
Sardinella aurita	5.40	88	2.44
Priacanthus arenatus	0.40	2	0.18
Scorpaenopsis japonicus	0.40	2	0.18
Echoneis naucrates	0.20	2	0.09
Selar crumenophthalmus	0.20	8	0.09
Lutjanus purpureus	0.20	2	0.09
Total	221.20	100.00	

PROJECT STATION: 360
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 800 Long W 5823
 TIME : 11:55 start stop duration 35 (min) Purpose code: 3
 LOG : 9983.00 9985.50 2.50 Area code : 2
 FDEPTH: 27 19 GearCond.code: 3
 BDEPTH: 27 19 Validity code:
 Towing dir: 135° Wire out: 150 m Speed: 45 kn*10
 Sorted: 22 Kg Total catch: 226.35 CATCH/HOUR: 388.03

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichurus lepturus	146.57	3350	37.77
Pellona harroweri	49.37	3178	12.72
Macrodon ancylodon	39.09	163	10.07
Engraulis eurystole	21.60	4166	5.57
Stellifer microps	20.06	417	5.17
Arius proops	18.51	15	4.77
Harengula jaguana	18.51	633	4.77
Hemicarax amblyrhynchus	18.51	370	4.77
Selene setapinnis	15.43	663	3.98
Isopiathus parvipinnis	9.26	617	2.39
Anchoviella lepidentostole	6.86	1142	1.77
Micropogonias furnieri	4.80	12	1.24
Cynoscion microlepidotus	4.63	31	1.19
Chirocentron bloekerianus	4.63	1805	1.19
Bagre marinus	3.43	17	0.88
Bagre bagre	3.43	15	0.88
Anchoa spinifer	2.31	62	0.60
Penaeus subtilis	0.86	38	0.22
Penaeus notialis	0.17	10	0.04
Xiphopenaeus kroyeri	0.00	31	
Prionotus sp	0.00	15	
Porichthys sp	0.00	15	
Saurida sp	0.00	15	
Peprilus paru	0.00	62	
Opisthonema oglinum	0.00	46	
Total	388.03	99.99	

PROJECT STATION: 364
 DATE:16/ 5/88 GEAR TYPE: BT No:1 POSITION:Lat N 813 Long W 5833
 TIME : 18:13 start stop duration 30 (min) Purpose code: 3
 LOG : 25.00 25.10 0.10 Area code : 2
 FDEPTH: 39 39 GearCond.code: 3
 BDEPTH: 39 39 Validity code:
 Towing dir: 300° Wire out: 250 m Speed: 1 kn*10
 Sorted: 77 Kg Total catch: 618.80 CATCH/HOUR: 1237.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus purpureus	731.20	624	59.08
Rhomboplites aurorubens	152.00	848	12.28
Chloroscombrus chrysurus	30.00	2320	6.46
Haemulon aurolineatum	72.00	432	5.82
Balistes vetula	48.00	32	3.88
Selar crumenophthalmus	35.20	864	2.84
Lutjanus synagris	22.40	64	1.81
Aluterus sp	19.20	16	1.55
Hemicarax amblyrhynchus	17.60	80	1.42
Eucinostomus argenteus	16.00	192	1.29
Sphyrna guachancho	11.20	32	0.90
Caranx crysos	8.00	16	0.65
Opisthonema oglinum	6.40	112	0.52
Trachurus lathami	4.80	16	0.39
Haemulon steindachneri	4.80	96	0.39
Calamus pennatula	4.00	16	0.32
Sphyrna picudilla	3.20	16	0.26
Upeneus parvus	0.80	16	0.06
Sardinella aurita	0.80	48	0.06
Total	1237.60	99.98	

PROJECT STATION: 365
 DATE: 16/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 811 Long W 5840
 start stop duration
 TIME : 19:40 20:10 30 (min) Purpose code: 3
 LOG : 32.20 32.50 0.30 Area code : 2
 FDEPTH: 37 37 GearCond.code:
 BDEPTH: 37 37 Validity code:
 Towing dir: 310° Wire out: 200 m Speed: 2 kn*10
 Sorted: 30 Kg Total catch: 38.45 CATCH/HOUR: 76.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Pellona harroweri	29.60	2326	38.49
Anchoviella lepidentostole	19.40	5300	25.23
Harengula jaguana	8.40	542	10.92
Chirocentron bleekermani	5.00	862	6.50
Trichiurus lepturus	4.40	242	5.72
Macrond ancylodon	3.20	14	4.16
Anchoa spinifer	2.60	296	3.38
Chloroscombrus chrysurus	1.20	68	1.56
Penaeus notialis	0.60	22	0.78
Loligo plei	0.40	4	0.52
Sphyraena picudilla	0.40	2	0.52
Paprilus paru	0.40	2	0.52
Macrond ancylodon	0.40	76	0.52
Caranx hippos	0.30	2	0.39
Loligo pealei	0.20	4	0.26
Cynoscion jamaicensis	0.20	2	0.26
Eucinostomus argentatus	0.20	4	0.26
Selene setapinnis	0.00	8	
Porichthys sp	0.00	2	
Total	76.90	99.99	

PROJECT STATION: 366
 DATE: 16/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 819 Long W 5845
 start stop duration
 TIME : 21:05 21:35 30 (min) Purpose code: 3
 LOG : 39.30 39.30 Area code : 2
 FDEPTH: 35 34 GearCond.code:
 BDEPTH: 35 34 Validity code:
 Towing dir: 310° Wire out: 200 m Speed: 1 kn*10
 Sorted: 64 Kg Total catch: 136.90 CATCH/HOUR: 273.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Chirocentron bleekermani	30.80	4620	11.25
Anchoviella lepidentostole	26.40	6204	9.64
Dalsteia vetula	26.00	40	9.50
Aluterus sp	22.00	24	0.04
Haemulon staidachneri	20.00	140	7.30
Lutjanus purpureus	18.00	36	6.57
Eucinostomus argentatus	16.00	268	5.84
Lutjanus synagris	16.00	20	5.84
Scomberomorus cavalla	15.40	2	5.62
Uraspis aequata	12.00	12	4.38
Trichiurus lepturus	10.00	148	3.65
Cynoscion jamaicensis	10.00	60	3.65
Porichthys sp	8.80	992	3.21
Prisacanthus arenatus	8.00	16	2.92
Sphyraena guachancho	8.00	16	2.92
Selene setapinnis	4.00	52	1.46
Echeneis naucrates	4.00	8	1.46
Penaeus notialis	3.00	96	1.10
Scomberomorus brasiliensis	2.80	4	1.02
Lepophidium sp	2.00	60	0.73
Rhiscopriodon porosus	2.00	4	0.73
Opisthonema oglinum	1.60	44	0.58
Selar crumenophthalmus	1.60	8	0.58
Rhomboplites aurorubens	1.60	8	0.58
Haemulon aurolineatum	1.20	8	0.44
Chloroscombrus chrysurus	0.80	20	0.29
Sphyraena picudilla	0.80	4	0.29
Dactylopterus volitans	0.60	12	0.22
Penaeus subtilis	0.40	28	0.15
Penaeus brasiliensis	0.00	4	
NETTASTOMATIDAE	0.00	16	
Loligo pealei	0.00	16	
Loligo plei	0.00	0	
Total	273.80	99.96	

PROJECT STATION: 367
 DATE: 16/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 830 Long W 5839
 start stop duration
 TIME : 23:19 23:49 30 (min) Purpose code: 3
 LOG : 54.40 54.50 0.10 Area code : 2
 FDEPTH: 68 68 GearCond.code:
 BDEPTH: 68 68 Validity code:
 Towing dir: 290° Wire out: 350 m Speed: 2 kn*10
 Sorted: 28 Kg Total catch: 56.60 CATCH/HOUR: 113.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Pristipomoides macrophthalmus	72.00	1944	63.60
CRABS	11.20	3360	9.89
Saurida sp	9.60	492	8.48
Upeneus parvus	8.00	232	7.07
Penaeus brasiliensis	3.20	120	2.83
Cynoscion jamaicensis	1.60	8	1.41
Aricema bondi	1.20	20	1.06
Porichthys sp	1.20	88	1.06
Prionotus punctatus	0.80	12	0.71
Loligo pealei	0.80	24	0.71
Lutjanus purpureus	0.80	8	0.71
Peristedion gracile	0.80	20	0.71
Nettastomus sp	0.40	20	0.35
Eucinostomus argentatus	0.40	12	0.35
Selar crumenophthalmus	0.40	12	0.35
Prisacanthus arenatus	0.40	4	0.35
Gymnothorax ocellatus	0.40	4	0.35
Prionotus sp	0.00	0	
Diplectrum formosum	0.00	0	
Trachurus lathami	0.00	0	
Decapterus punctatus	0.00	4	
Haemulon boschmae	0.00	4	
Scorpaena dispar	0.00	4	
Paraxocetus brachypterus	0.00	4	
Total	113.20	99.99	

PROJECT STATION: 368
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 832 Long W 5853
 start stop duration
 TIME : 01:09 01:39 30 (min) Purpose code: 3
 LOG : 65.70 65.70 Area code : 2
 FDEPTH: 66 66 GearCond.code:
 BDEPTH: 66 66 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: kn*10
 Sorted: 23 Kg Total catch: 48.10 CATCH/HOUR: 96.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Saurida sp	30.00	1604	31.19
Pristipomoides macrophthalmus	21.20	686	22.04
Upeneus parvus	13.20	228	13.72
Diplectrum formosum	7.20	768	7.48
Lepophidium sp	6.80	596	7.07
Penaeus notialis	4.40	96	4.57
Cynoscion jamaicensis	3.60	24	3.74
Prisacanthus arenatus	2.80	84	2.91
Porichthys sp	1.20	4	1.25
Rhomboplites aurorubens	0.80	44	0.83
Penaeus subtilis	0.80	12	0.83
Lutjanus purpureus	0.60	8	0.62
Loligo pealei	0.40	4	0.42
Loligo plei	0.40	8	0.42
Prionotus punctatus	0.40	4	0.42
Peristedion gracile	0.40	8	0.42
Haemulon aurolineatum	0.40	8	0.42
Paraxocetus brachypterus	0.40	12	0.42
Orthopristis ruber	0.40	4	0.42
Penaeus brasiliensis	0.40	12	0.42
Colomesus sp	0.00	4	
Prionotus sp	0.00	4	
Total	96.20	100.03	

PROJECT STATION: 369
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 813 Long W 5853
 start stop duration
 TIME : 05:25 05:55 30 (min) Purpose code: 3
 LOG : 94.20 95.70 1.50 Area code : 2
 FDEPTH: 15 14 GearCond.code:
 BDEPTH: 15 14 Validity code:
 Towing dir: 292° Wire out: 100 m Speed: 30 kn*10
 Sorted: 23 Kg Total catch: 225.20 CATCH/HOUR: 450.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Dasystis geljakesi	54.00	18	11.99
Chaetodipterus faber	48.80	14	10.83
Anchoa spinifer	36.80	3088	8.17
Arius grandicassisi	32.00	28	7.10
Cynoscion virens	31.00	10	6.88
Stellifer sp	30.40	2456	6.75
Harengula jaguana	30.40	608	6.75
Scomberomorus brasiliensis	27.40	66	6.68
Macrond ancylodon	24.80	272	5.51
Xiphopenaeus kroyeri	23.20	4136	5.17
Gymnura maura	20.00	20	4.44
Paprilus paru	18.40	568	4.09
Centropomus undecimalis	18.00	4	4.00
Arius quadriscutis	17.20	48	3.82
Macrond sp	10.40		2.31
Umbra coroides	6.00	16	1.33
Penaeus subtilis	4.00	184	0.89
Bagre bagre	4.00	40	0.89
Odontogobius macronotus	3.20	272	0.71
Arius proops	3.00	2	0.67
Trichiurus lepturus	2.40	80	0.53
Micropogonias furnieri	1.40	2	0.31
Cynoscion leiacodon	1.20	2	0.27
Hemiaranx amblyrhynchus	0.80	16	0.18
Penaeus schmitti	0.80	12	0.18
Nebria microps	0.80	2	0.18
Paralichthys brasiliensis	0.00	64	
Isopisthus parvipinnis	0.00	104	
Total	450.40	100.01	

PROJECT STATION: 370
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 826 Long W 5901
 start stop duration
 TIME : 07:23 07:53 30 (min) Purpose code: 3
 LOG : 108.60 108.60 Area code : 2
 FDEPTH: 29 29 GearCond.code:
 BDEPTH: 29 29 Validity code:
 Towing dir: 300° Wire out: 150 m Speed: kn*10
 Sorted: 21 Kg Total catch: 388.10 CATCH/HOUR: 776.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Anchoviella lepidentostole	64.00	130932	88.12
Harengula jaguana	32.40	1152	4.17
Pellona harroweri	32.40	1980	4.17
Cynoscion jamaicensis	7.20	216	0.93
Paprilus paru	7.20	108	0.93
Scomberomorus cavalla	3.80	2	0.49
Sphyraena guachancho	3.00	6	0.39
Scomberomorus brasiliensis	2.20	6	0.28
Hemiaranx amblyrhynchus	1.80	36	0.23
Umbra coroides	1.40	4	0.18
Rhiscopriodon porosus	0.80	2	0.10
Opisthonema oglinum	0.00	72	
Anchoa spinifer	0.00	36	
Penaeus subtilis	0.00	72	
Penaeus schmitti	0.00	36	
Sardinella aurita	0.00	288	
Stellifer sp	0.00	72	
Total	776.20	99.99	

PROJECT STATION: 371
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 830 Long W 5912
 TIME : 08:48 start stop duration Purpose code: 3
 LOG : 116.10 117.60 1.50 Area code : 2
 FDEPTH: 10 17 GearCond.code:
 BDEPTH: 10 17 Validity code:
 Towing dir: 280° Wire out: 100 m Speed: 30 kn*10
 Sorted: 55 Kg Total catch: 288.30 CATCH/HOUR: 576.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chaetodipterus faber	104.00	42	18.04
Macrodon ancylodon	84.00	440	14.57
Arius grandioasis	68.00	104	11.79
Trichiurus lepturus	64.00	3760	11.10
Arius quadriscutis	64.00	136	11.10
Cynoscion virescens	39.20	88	6.80
Harengula jaguana	18.40	320	3.19
Caranx hippos	16.80	40	2.91
Carachrinus loucae	16.60	2	2.88
Chloroscobrus chrysurus	16.00	664	2.77
Cynoscion acoupa	14.00	2	2.43
Xiphopenaus kroyeri	10.40	1920	1.80
Bagre bagre	10.40	96	1.80
Scomberomorus brasiliensis	7.20	8	1.25
Dasyatis geijskesi	6.40	8	1.11
Sphyrna tiburo	6.00	2	1.04
Rhizoprionodon porosus	5.60	8	0.97
Hemicarax amblyrhynchus	4.00	24	0.69
Anchoa spinifer	4.00	160	0.69
Trachinotus cayennensis	4.00	8	0.69
Stallifer microps	2.40	136	0.42
Larimus breviceps	2.40	56	0.42
Isopisthus parvipinnis	2.40	104	0.42
Penaeus subtilis	1.60	136	0.28
Opisthonema oglinum	1.60	24	0.28
Peprilus paru	1.60	56	0.28
Micropogonias furnieri	1.60	8	0.28
Lycengraulis grossidens	0.00	24	
Total	576.60		100.00

PROJECT STATION: 375
 DATE: 16/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 833 Long W 5925
 TIME : 05:42 start stop duration Purpose code: 3
 LOG : 181.00 182.00 1.00 Area code : 2
 FDEPTH: 11 10 GearCond.code:
 BDEPTH: 11 10 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 30 kn*10
 Sorted: 35 Kg Total catch: 236.30 CATCH/HOUR: 472.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macrodon ancylodon	115.20	1872	24.38
Anchoa spinifer	115.20	12252	24.38
Hemicarax amblyrhynchus	66.00	2172	13.97
Catengraulis edentulus	36.00	1152	7.62
Centropomus undecimalis	29.00	12	6.14
Peprilus paru	24.00	600	5.08
Xiphopenaus kroyeri	18.00	3324	3.81
Stallifer microps	18.00	1092	3.81
Cynoscion acoupa	14.00	2	2.96
Trichiurus lepturus	12.00	480	2.54
Cynoscion virescens	7.40	2	1.57
Bagre bagre	6.00	120	1.27
Harengula jaguana	3.00	180	0.63
Chloroscobrus chrysurus	3.00	100	0.63
Anchoviella lepidostole	3.00	240	0.63
Micropogonias furnieri	2.80	4	0.59
Penaeus subtilis	0.00	60	
ENGRAULIDIDAE	0.00	180	
Isopisthus parvipinnis	0.00	300	
Total	472.60		100.01

PROJECT STATION: 376
 DATE: 18/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 846 Long W 5932
 TIME : 07:35 start stop duration Purpose code: 3
 LOG : 194.70 194.70 0.40 Area code : 2
 FDEPTH: 52 51 GearCond.code:
 BDEPTH: 52 51 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: kn*10
 Sorted: 42 Kg Total catch: 42.10 CATCH/HOUR: 84.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhizoprionodon porosus	33.80	46	40.14
Solene setapinnis	33.60	72	39.90
Scomberomorus cavalla	7.80	4	9.26
Lutjanus purpureus	3.80	4	4.51
Scomberomorus brasiliensis	3.80	6	4.51
Selar crumenophthalmus	0.60	4	0.71
Peprilus paru	0.60	12	0.71
Chloroscobrus chrysurus	0.10	6	0.12
Diapterus rhombeus	0.10	2	0.12
Total	84.20		99.98

PROJECT STATION: 377
 DATE: 18/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 846 Long W 5945
 TIME : 09:25 start stop duration Purpose code: 3
 LOG : 207.30 207.70 0.40 Area code : 2
 FDEPTH: 30 30 GearCond.code:
 BDEPTH: 30 30 Validity code:
 Towing dir: 265° Wire out: 150 m Speed: 5 kn*10
 Sorted: 18 Kg Total catch: 17.75 CATCH/HOUR: 35.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
ENGRAULIDIDAE	20.00		56.34
Scomberomorus brasiliensis	12.00	10	33.80
Chloroscobrus chrysurus	1.80	90	5.07
Lutjanus purpureus	0.80	2	2.25
Synodus sp	0.40	2	1.13
Haemulon macrostomum	0.30	2	0.85
Porichthys sp	0.10	2	0.28
Alectis ocellaris	0.10	4	0.28
Selene setapinnis	0.00	2	
Peprilus paru	0.00	2	
Penaeus subtilis	0.00	8	
Selar crumenophthalmus	0.00	6	
Total	35.50		100.00

PROJECT STATION: 372
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 837 Long W 5908
 TIME : 10:30 start stop duration Purpose code: 3
 LOG : 127.70 127.70 0.40 Area code : 2
 FDEPTH: 56 57 GearCond.code:
 BDEPTH: 56 57 Validity code:
 Towing dir: 310° Wire out: 300 m Speed: kn*10
 Sorted: 32 Kg Total catch: 32.30 CATCH/HOUR: 64.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Hemicarax amblyrhynchus	30.00	108	46.44
Scomberomorus cavalla	13.80	8	21.36
Selene setapinnis	13.20	32	20.43
Scomberomorus brasiliensis	4.80	4	7.43
Loligo plei	1.20	216	1.86
Peprilus paru	0.80	14	1.24
Caranx hippos	0.80	2	1.24
Total	64.60		100.00

PROJECT STATION: 373
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 844 Long W 5904
 TIME : 12:25 start stop duration Purpose code: 3
 LOG : 139.80 139.80 0.40 Area code : 2
 FDEPTH: 81 81 GearCond.code:
 BDEPTH: 81 81 Validity code:
 Towing dir: 290° Wire out: 450 m Speed: 1 kn*10
 Sorted: 13 Kg Total catch: 13.60 CATCH/HOUR: 27.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Hemicarax amblyrhynchus	11.00	44	40.44
Peprilus paru	0.60	30	31.62
Priacanthus arenatus	2.60	14	9.56
Lutjanus purpureus	1.40	4	5.15
Loligo plei	1.40	204	5.15
Selene setapinnis	1.20	2	4.41
Rhomboplites aurorubens	1.00	14	3.60
Total	27.20		100.01

PROJECT STATION: 378
 DATE: 18/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 849 Long W 6000
 TIME : 11:08 start stop duration Purpose code: 3
 LOG : 219.60 221.10 1.50 Area code : 3
 FDEPTH: 14 14 GearCond.code:
 BDEPTH: 14 14 Validity code:
 Towing dir: 300° Wire out: 75 m Speed: 35 kn*10
 Sorted: 32 Kg Total catch: 145.10 CATCH/HOUR: 290.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Anchoviella lepidostole	91.20	16720	31.43
Trichiurus lepturus	52.00	2514	17.92
Harengula jaguana	51.20	1076	17.64
Anchoa sp	24.00	512	8.27
Peprilus paru	22.40	400	7.72
Carachrinus limbatus	19.40	10	6.69
Sphyrna lewini	7.60	4	2.62
Macrodon ancylodon	4.80	64	1.65
Hemicarax amblyrhynchus	4.80	88	1.65
Chirocentron bleakerianus	4.00	1040	1.30
Penaeus subtilis	3.40	566	1.17
Bagre bagre	1.80	2	0.62
Rhizoprionodon porosus	1.80	2	0.62
Lycengraulis grossidens	0.00	40	0.28
Isopisthus parvipinnis	0.00	40	0.28
Penaeus schmitti	0.20	16	0.07
Selene setapinnis	0.00	16	
Chloroscobrus chrysurus	0.00	16	
Anchoa spinifer	0.00	32	
Opisthonema oglinum	0.00	16	
Total	290.20		100.01

PROJECT STATION: 374
 DATE: 17/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 850 Long W 5900
 TIME : 14:08 start stop duration Purpose code: 3
 LOG : 150.40 150.40 0.40 Area code : 2
 FDEPTH: 84 84 GearCond.code:
 BDEPTH: 84 84 Validity code:
 Towing dir: 299° Wire out: 450 m Speed: 1 kn*10
 Sorted: 60 Kg Total catch: 59.70 CATCH/HOUR: 119.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Nycteropera bonaci	63.00	10	52.76
Rhomboplites aurorubens	25.40	236	21.27
Pristipomoides macrophthalmus	14.00	138	11.73
Ariomma regulus	6.20	58	5.19
Trachurus lathami	4.80	38	4.02
Lutjanus purpureus	1.40	2	1.17
Selar crumenophthalmus	0.80	6	0.67
Haemulon aurolineatum	0.60	8	0.50
Caulolatilus cyanops	0.60	2	0.50
Balistes vetula	0.40	2	0.34
Saurida sp	0.40	2	0.34
Serranus phoebe	0.40	6	0.34
Hemicarax amblyrhynchus	0.40	6	0.34
Echeneis rosmora	0.00	2	
Total	119.40		100.00

PROJECT STATION: 379
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 900 Long W 6001
 TIME : 12:45 start stop duration
 LOG : 231.20 233.30 2.10 Purpose code: 3
 FDEPTH: 43 Area code: 3
 BDEPTH: 43 GearCond. code:
 Towing dir: 111° Wire out: 300 m Speed: 40 kn*10
 Sorted: 29 Kg Total catch: 28.95 CATCH/HOUR: 57.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyræna picudilla	20.00	108	34.54	204
Caranx crysos	12.00	22	20.73	
Sphyræna guachancho	6.00	12	11.74	
Mustelus higmani	5.20	12	10.71	
Rhizoprionodon porosus	5.20	8	6.98	
Scorpaenomorrus brasiliensis	2.40	4	4.15	
Hemicarax amblyrhynchus	2.40	4	4.15	
Peprilus paru	1.00	10	1.73	
Selene setapinnis	0.80	16	1.30	
Chloroscombrus chrysurus	0.50	22	0.86	
Trichiurus lepturus	0.40	2	0.69	
Synodus sp	0.20	2	0.35	
Total	57.90		100.01	

PROJECT STATION: 380
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 908 Long W 5957
 TIME : 15:41 start stop duration
 LOG : 245.30 247.00 1.70 Purpose code: 3
 FDEPTH: 60 Area code: 3
 BDEPTH: 60 GearCond. code:
 Towing dir: 89° Wire out: 300 m Speed: 35 kn*10
 Sorted: 28 Kg Total catch: 28.50 CATCH/HOUR: 57.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Peprilus paru	39.80	148	69.82	205
Loligo pealei	2.80	188	4.91	206
Sphyræna picudilla	2.40	14	4.21	
Loligo plei	2.00	118	3.51	207
Aluterus monoceros	2.00	2	3.51	
Selar crumenophthalmus	2.00	18	3.51	
Mustelus higmani	1.40	4	2.46	
Opisthotea oglinum	1.40	8	2.46	
Penaeus notialis	0.80	16	1.40	
Selene setapinnis	0.80	14	1.40	
Trichiurus lepturus	0.40	4	0.70	
Sardinella aurita	0.40	14	0.70	
Penaeus subtilis	0.20	4	0.35	
Synodus sp	0.20	2	0.35	
Chloroscombrus chrysurus	0.20	4	0.35	
Upeneus parvus	0.20	4	0.35	
Diapterus rhombus	0.00	2		
Lagocephalus laevis	0.00	4		
Eucinostomus argenteus	0.00	4		
Total	57.00		99.99	

PROJECT STATION: 381
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 920 Long W 5951
 TIME : 16:40 start stop duration
 LOG : 260.30 262.40 2.10 Purpose code: 3
 FDEPTH: 70 Area code: 3
 BDEPTH: 70 GearCond. code:
 Towing dir: 125° Wire out: 400 m Speed: 45 kn*10
 Sorted: 48 Kg Total catch: 47.85 CATCH/HOUR: 95.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	67.00	1040	70.01	
Rhomboplites aurorubens	12.00	144	12.54	208
Caranx crysos	7.70	10	8.05	
Priacanthus arenatus	4.00	10	4.18	
Loligo plei	1.00	62	1.88	
Loligo pealei	1.00	14	1.04	
Sphyræna picudilla	0.60	4	0.63	
Lutjanus purpureus	0.60	6	0.63	
Upeneus parvus	0.40	12	0.42	
Opisthotea oglinum	0.40	2	0.42	
Selar crumenophthalmus	0.20	2	0.21	
Total	95.70		100.01	

PROJECT STATION: 382
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 911 Long W 5939
 TIME : 19:15 start stop duration
 LOG : 280.40 282.60 2.20 Purpose code: 3
 FDEPTH: 76 Area code: 3
 BDEPTH: 75 GearCond. code:
 Towing dir: 125° Wire out: 400 m Speed: 45 kn*10
 Sorted: 24 Kg Total catch: 75.60 CATCH/HOUR: 151.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	75.60	1452	50.00	209
CRABS	21.00		13.89	
Eucinostomus argenteus	11.40	276	7.54	
Synodus sp	8.40	72	5.56	
Rhomboplites aurorubens	8.40	96	5.56	211
Upeneus parvus	8.40	258	5.56	
Penaeus brasiliensis	4.80	154	3.17	210
Lepophidium brevibarbe	1.80	66	1.19	
NETTASTOMATIDAE	1.80	84	1.19	
Haemulon steindachneri	1.80	30	1.19	
Haemulon aurolineatum	1.20	18	0.79	
Priacanthus arenatus	1.20	6	0.79	
Scorpaenopsis japonicus	1.20	6	0.79	
SERRANIDAE	1.20	144	0.79	
Paralichthys albigutta	0.60	6	0.40	
Loligo plei	0.60	6	0.40	
Lagocephalus laevis	0.60	12	0.40	
Pareques acuminatus	0.30	6	0.20	
Porichthys sp	0.30	42	0.20	
Decapterus punctatus	0.30	6	0.20	
Trachurus lathami	0.30	24	0.20	
Apogon sp	0.00	6		
SCORPAENIDAE	0.00	6		
Dactylopterus volitans	0.00	12		
Total	151.20		100.01	

PROJECT STATION: 383
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 902 Long W 5920
 TIME : 22:00 start stop duration
 LOG : 302.90 302.90 30 (min) Purpose code: 3
 FDEPTH: 83 Area code: 3
 BDEPTH: 83 GearCond. code:
 Towing dir: 290° Wire out: 400 m Speed: kn*10
 Sorted: 28 Kg Total catch: 117.00 CATCH/HOUR: 234.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	113.60	2104	48.55	212
Upeneus parvus	24.00	488	10.26	213
NETTASTOMATIDAE	12.80	456	5.47	
Prionotus sp	11.20	600	4.79	
Rhomboplites aurorubens	8.00	112	3.42	
Lepophidium brevibarbe	7.20	400	3.08	
Synodus sp	6.40	64	2.74	
Rhizoprionodon porosus	5.60	4	2.39	
Lutjanus purpureus	5.60	32	2.39	
Diplectrum sp	4.80	368	2.05	
Haemulon steindachneri	4.80	72	2.05	
Penaeus notialis	3.80	70	1.62	214
Porichthys sp	3.20	176	0.77	
Apogon sp	3.20	296	1.37	
Cynoscion jamaicensis	3.20	16	1.37	
Ogcocephalus sp	3.20	8	1.37	
Loligo plei	3.20	8	1.37	
Priacanthus arenatus	2.40	16	1.03	
Calappa pennatula	2.00	8	0.85	
Penaeus brasiliensis	1.80	62	0.77	215
Prionotus carolinus	0.80	16	0.34	
Eucinostomus argenteus	0.80	24	0.34	
CONGRIDAE	0.80	24	0.34	
Syacium microrum	0.80	8	0.34	
Epinephelus flavolimbatus	0.80	8	0.34	
Total	234.00		100.01	

PROJECT STATION: 384
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 855 Long W 5935
 TIME : 23:48 start stop duration
 LOG : 313.80 313.80 30 (min) Purpose code: 3
 FDEPTH: 69 Area code: 3
 BDEPTH: 69 GearCond. code:
 Towing dir: 300° Wire out: 350 m Speed: kn*10
 Sorted: 7 Kg Total catch: 49.70 CATCH/HOUR: 99.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ophidion sp.	16.00	1184	16.10	
Cynoscion jamaicensis	13.80	144	13.88	
Saurida sp	13.60	544	13.68	
Caranx crysos	7.20	26	7.24	
Peprilus paru	7.00	28	7.04	
Shrimps, small, com. comm.	5.60	1784	5.63	
Hoplunnis diomedianus	5.60	128	5.63	
Loligo plei	5.60	120	5.63	
CRABS	4.00		4.02	
Penaeus notialis	3.00	72	3.02	216
Pristipomoides macrophthalmus	2.40	232	2.41	
Diplectrum formosum	2.40	360	2.41	
Upeneus parvus	2.40	72	2.41	
Escheneis remora	2.40	2	2.41	
Mustelus higmani	2.00	2	2.01	
Scorpaenomorrus brasiliensis	2.00	6	2.01	
Sphyræna picudilla	1.00	4	1.01	
Trachurus lathami	0.80	48	0.80	
Porichthys sp	0.80	104	0.80	
Ogcocephalus nasutus	0.80	2	0.80	
Lutjanus purpureus	0.60	20	0.60	
Penaeus subtilis	0.40	6	0.40	
Eucinostomus argenteus	0.00	24		
Parexocoetus brachypterus	0.00	8		
Penaeus brasiliensis	0.00	2		
Total	99.40		99.94	

PROJECT STATION: 385
 DATE: 10/5/88 GEAR TYPE: BT No:1 POSITION: Lat N 901 Long W 5943
 TIME : 01:07 start stop duration
 LOG : 210.50 218.50 30 (min) Purpose code: 3
 FDEPTH: 67 Area code: 3
 BDEPTH: 67 GearCond. code:
 Towing dir: 299° Wire out: 350 m Speed: kn*10
 Sorted: 6 Kg Total catch: 37.10 CATCH/HOUR: 74.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ophidion sp.	16.00	1320	21.56	
Cynoscion jamaicensis	12.60	126	16.98	218
Saurida sp	10.40	544	14.02	
S H R I M P S	5.60	1960	7.55	
Diplectrum formosum	4.80	472	6.47	
Penaeus notialis	4.40	102	5.93	217
CRABS	4.00		5.39	
Eucinostomus argenteus	4.00	128	5.39	
Scorpaenomorrus brasiliensis	2.60	4	3.23	
Loligo plei	2.40	48	3.23	
Trachurus lathami	1.20	48	1.62	
Mustelus higmani	1.00	2	1.35	
Hoplunnis diomedianus	0.80	48	1.08	
Upeneus parvus	0.80	16	1.08	
Lutjanus purpureus	0.60	4	0.81	
Ogcocephalus pumilus	0.60	2	0.81	
Ogcocephalus nasutus	0.60	2	0.81	
Parexocoetus brachypterus	0.40	32	0.54	
Porichthys sp	0.40	120	0.54	
Pristipomoides macrophthalmus	0.40	248	0.54	
Rhomboplites aurorubens	0.40	8	0.54	
Penaeus brasiliensis	0.20	6	0.27	
Ancylometta quadricollata	0.00	8		
Penaeus subtilis	0.00	2		
Total	74.20		100.01	

PROJECT STATION: 390
 DATE: 19/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 901 Long W 6016
 start stop duration Purpose code: 3
 TIME : 05:29 05:59 30 (min)
 LOG : 345.30 346.50 1.20 Area code : 3
 FDEPTH: 18 15 GearCond.code: 1
 BDEPTH: 18 15 Validity code: 1
 Towing dir: 299° Wire out: 100 m Speed: 25 kn*10
 Sorted: 39 Kg Total catch: 407.60 CATCH/HOUR: 975.60

PROJECT STATION: 392
 DATE: 19/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 952 Long W 5949
 start stop duration Purpose code: 3
 TIME : 18:56 19:13 17 (min)
 LOG : 432.00 432.50 0.50 Area code : 3
 FDEPTH: 402 400 GearCond.code: 5
 BDEPTH: 402 400 Validity code: 5
 Towing dir: 320° Wire out: 1350 m Speed: 25 kn*10
 Sorted: 17 Kg Total catch: 17.65 CATCH/HOUR: 62.29

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Macrodon ancylodon	307.00	38.95	219
Trichiurus lepturus	157.60	16.15	
Stellifer sp	112.60	11.54	
Cynoscion virescens	80.00	8.20	
Arius grandicassisi	67.60	6.93	
Isopisthus parvipinnis	60.00	6.15	
Oligoplites palometa	30.00	3.00	
Larimus brevicaps	22.60	2.32	
Arius quadriscutis	22.60	2.32	
Nebria microps	15.00	1.54	
Xiphopenaus kroyeri	10.00	1.03	
Echeneis naucrates	6.20	0.64	
Odontognathus mucronatus	5.00	0.51	
Bagre bagre	3.80	0.39	
Harengula jaguana	2.60	0.27	
Anchoviella lepidentostole	0.00	0.00	
Peprilus paru	0.00	0.00	
Total	975.60	100.02	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
ISOPODS	20.47	28	32.86
Parasudis trunculentus	17.65	402	28.34
Illex illecebrosus	7.06	35	11.33
Epigonus macrops	5.29	60	8.49
Malacocephalus occidentalis	3.88	53	6.23
SOLENOGERIDAE	3.53	109	5.67
Hollardia hollardia	1.41	7	2.26
Etmopterus virens	0.71	32	1.14
HIPPOLYTIDAE	0.71	116	1.14
Physiculus sp	0.53	4	0.85
OPHIIDAE	0.35	11	0.56
PANDALIDAE	0.35	67	0.56
Polymetma corythaeola	0.18	7	0.29
LOBNIOO	0.18	7	0.29
MYCTOPHIDAE	0.00	7	0.00
SOLEIDAE	0.00	4	0.00
Chaunax pictus	0.00	4	0.00
Diretmoides pauciradiatus	0.00	7	0.00
Pontinus sp.	0.00	4	0.00
Plesiopenaus edwardsianus	0.00	4	0.00
Total	62.30	100.01	

PROJECT STATION: 387
 DATE: 19/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 913 Long W 6020
 start stop duration Purpose code: 3
 TIME : 07:10 07:40 30 (min)
 LOG : 357.40 358.10 0.70 Area code : 3
 FDEPTH: 44 42 GearCond.code: 1
 BDEPTH: 44 42 Validity code: 1
 Towing dir: 300° Wire out: 250 m Speed: 15 kn*10
 Sorted: 18 Kg Total catch: 108.90 CATCH/HOUR: 217.80

PROJECT STATION: 391
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 930 Long W 5935
 start stop duration Purpose code: 3
 TIME : 00:21 01:21 60 (min)
 LOG : 476.30 477.90 1.60 Area code : 3
 FDEPTH: 512 509 GearCond.code: 1
 BDEPTH: 512 509 Validity code: 1
 Towing dir: 309° Wire out: 1500 m Speed: 20 kn*10
 Sorted: 19 Kg Total catch: 19.00 CATCH/HOUR: 19.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Peprilus paru	70.00	32.14	220
Sphyrna pudilla	34.00	15.61	222
Cynoscion jamaicensis	25.00	11.40	
Rhizoprionodon porosus	20.00	9.18	
Scomboromus cavalla	13.00	5.97	221
Trachinotus cayennensis	10.00	4.59	
Chloroscombus chrysurus	8.00	3.67	
Selene setapinnis	7.00	3.21	
Scomboromus brasiliensis	6.00	2.75	223
Solar crumenophthalmus	6.00	2.75	
Stellifer microps	5.00	2.30	
Loligo pealei	3.00	1.38	
Opisthonema oglinum	3.00	1.38	
Macrodon ancylodon	3.00	1.38	
Lagocephalus laevigatus	2.80	1.29	
Sphyræna guachancho	2.00	0.92	
Peneus subtilis	0.00	0.00	
Total	217.80	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Steindachneria argenta	9.90	306	52.11
Syngnops sp.	3.20	36	16.84
SOLENOGERIDAE	1.00	43	5.26
Chaunax pictus	1.00	11	5.26
Crujeira sp.	0.90	2	4.74
Plesiopenaus edwardsianus	0.60	14	3.16
PANDALIDAE	0.30	44	1.58
Gurgesiella atlantica	0.30	1	1.50
Ornithosteus antillarum	0.20	1	1.05
SEPTIIDAE	0.20	1	1.05
MORIDAE	0.20	4	1.05
CHLOROPHTHALMIDAE	0.20	6	1.05
POLYCHELIDAE	0.15	29	0.75
NEOSCOPELIDAE	0.15	13	0.79
MYCTOPHIDAE	0.10	24	0.53
Bathyporeia viridensis	0.10	8	0.53
Lampadena luminosa	0.10	11	0.53
Dicrolene intronigra	0.10	13	0.53
Diplophos maderensis	0.10	4	0.53
Rossia sp	0.10	2	0.53
Diretmoides pauciradiatus	0.10	10	0.53
TRICANTHODIDAE	0.00	1	0.00
PERCOPHIDAE	0.00	2	0.00
Neopinnula orientalis	0.00	1	0.00
Chlorophthalmus sp.	0.00	2	0.00
Coelorrhinus caribbaeus	0.00	2	0.00
Melanostomias macrophothus	0.00	1	0.00
Sternoptyx pseudobscura	0.00	2	0.00
Peristedion gracile	0.00	2	0.00
Total	19.00	100.02	

PROJECT STATION: 388
 DATE: 19/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 916 Long W 6027
 start stop duration Purpose code: 3
 TIME : 08:22 08:52 30 (min)
 LOG : 362.50 363.70 1.20 Area code : 3
 FDEPTH: 23 20 GearCond.code: 1
 BDEPTH: 23 20 Validity code: 1
 Towing dir: 203° Wire out: 150 m Speed: 30 kn*10
 Sorted: 30 Kg Total catch: 110.20 CATCH/HOUR: 220.40

PROJECT STATION: 392
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 930 Long W 5939
 start stop duration Purpose code: 3
 TIME : 03:47 04:47 60 (min)
 LOG : 405.50 486.60 1.10 Area code : 3
 FDEPTH: 396 401 GearCond.code: 3
 BDEPTH: 396 401 Validity code: 3
 Towing dir: 310° Wire out: 1300 m Speed: 15 kn*10
 Sorted: 8 Kg Total catch: 26.55 CATCH/HOUR: 26.55

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Selene setapinnis	48.00	858	21.70
Scomboromus brasiliensis	35.60	40	16.15
Chaetodipterus faber	24.00	10	10.89
ENGRULIDAE	23.20	10	10.53
Sphyræna guachancho	19.60	132	8.89
Sphyræna guachancho	12.00	34	5.44
Chirocentron bleekerianus	10.40	1652	4.72
Elops saurus	9.20	8	4.17
Trachinotus cayennensis	0.80	20	3.99
Peprilus paru	5.60	66	2.54
Caranx hippos	4.00	4	1.81
Scomboromus cavalla	4.00	2	1.81
Muraena canis	4.00	12	1.81
Chloroscombus chrysurus	3.60	176	1.63
Rhizoprionodon porosus	2.40	4	1.09
Micropogonias furnieri	1.60	4	0.73
Echeneis naucrates	1.20	4	0.54
Hemicarax amblyrhynchus	1.20	8	0.54
Diapterus rhombus	0.80	4	0.36
Sphyræna picudilla	0.60	4	0.27
Cynoscion jamaicensis	0.60	4	0.27
Syaculus micurus	0.00	4	0.00
Symphurus sp	0.00	4	0.00
Total	220.40	99.96	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
SOLENOGERIDAE	5.90	196	22.22
Chlorophthalmus sp.	5.20	98	19.59
Steindachneria argenta	2.20	38	8.29
Halieutichthys sp.	2.00	2	7.53
ISOPODS	1.90	3	7.16
GADIDAE	0.80	2	3.01
Illex illecebrosus	0.80	4	3.01
Pholidoteuthis sp.	0.80	2	3.01
CONGRIDAE	0.70	2	2.64
PERCOPHIDAE	0.60	8	2.26
Diplophos maderensis	0.60	10	2.26
Gurgesiella atlantica	0.60	4	2.26
Raja clarki	0.60	2	2.26
POLYCHELIDAE	0.60	26	2.26
CHLOROPHTHALMIDAE	0.40	17	1.51
Pontinus helena	0.40	2	1.51
Peristedion gracile	0.40	6	1.51
Heterostoma melanurum	0.40	4	1.51
SEPIOLIDAE	0.40	2	1.51
Etmopterus pusillus	0.20	4	0.75
Diretmoides pauciradiatus	0.20	8	0.75
Physiculus sp	0.20	4	0.75
Benthodesmus tenuis	0.20	2	0.75
HIPPOLYTIDAE	0.20	10	0.75
PANDALIDAE	0.20	43	0.75
LOBNIOO	0.05	8	0.19
Epigonus macrops	0.00	6	0.00
Chascanopsetta lugubris	0.00	2	0.00
Syaculus micurus	0.00	2	0.00
Bathylagus longirostris	0.00	8	0.00
Melanostomias macrophothus	0.00	2	0.00
Sternoptyx pseudobscura	0.00	10	0.00
Xenolepidichthys dalgleishi	0.00	4	0.00
Setarches guentheri	0.00	4	0.00
Zalieutes mogintyi	0.00	6	0.00
Cyttopsis roseus	0.00	2	0.00
Nealotus tripes	0.00	2	0.00
Polymixia lowei	0.00	2	0.00
Coelorrhinus caribbaeus	0.00	2	0.00
Malacocephalus occidentalis	0.00	8	0.00
Total	26.55	100.00	

PROJECT STATION: 389
 DATE: 19/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 918 Long W 6032
 start stop duration Purpose code: 3
 TIME : 09:30 10:00 30 (min)
 LOG : 367.90 369.00 1.10 Area code : 3
 FDEPTH: 8 8 GearCond.code: 1
 BDEPTH: 8 8 Validity code: 1
 Towing dir: 300° Wire out: 50 m Speed: 25 kn*10
 Sorted: 25 Kg Total catch: 164.70 CATCH/HOUR: 329.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Xiphopenaus kroyeri	76.80	12288	23.32
Desyatis goijskasi	50.00	12	15.18
Arius grandicassisi	44.00	30	13.36
Cynoscion acoupa	36.00	6	10.93
Nematopalaemon schmitti	28.20	18030	8.56
Arius quadriscutis	26.80	58	8.14
Macrodon ancylodon	24.00	510	7.29
Cynoscion virescens	9.40	8	2.85
Nebria microps	0.40	132	2.55
Carcharias sp	6.00	2	1.82
Centropomus undecimalis	4.80	2	1.46
SCIARNIDAE	2.40	0	0.73
Bagre bagre	1.80	324	0.75
Trichiurus lepturus	1.80	84	0.55
Peprilus paru	1.80	42	0.55
Anchoa spinifer	1.50	48	0.46
Cynoscion jamaicensis	1.40	2	0.43
Paralichthys brasiliensis	1.20	12	0.36
Peneus subtilis	1.20	78	0.36
Trachinotus cayennensis	1.00	2	0.30
Bagre bagre	0.60	30	0.18
Peneus schmitti	0.30	12	0.09
Anchoa spinifer	0.00	366	0.00
Cetengraulis edentulus	0.00	6	0.00
Isopisthus parvipinnis	0.00	6	0.00
Total	329.40	100.02	

PROJECT STATION: 393
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 930 Long W 5941
 TIME : 05:06 start stop duration
 LOG : 494.80 495.30 0.50 Purpose code: 3 Area code : 3
 FDEPTH: 283 258 GearCond.code: 3
 BDEPTH: 283 258 Validity code:
 Towing dir: 330° Wire out: 900 m Speed: 5 kn*10
 Sorted: 21 Kg Total catch: 31.40 CATCH/HOUR: 55.41

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Illex illecebrosus	16.94	448	30.57
Synagrops bellus	9.71	694	17.52
Squatina dumeril	9.00	76	16.24
Parasudis truculentus	6.35	1165	11.46
Bathygadus melanobranchus	3.71		6.70
Pontinus rathbuni	2.12	19	3.83
Neopinnula orientalis	1.76	37	3.18
Malacocephalus occidentalis	1.59	35	2.87
Synodus sp	1.06	9	1.91
MYCTOPHIDAE	1.06		1.91
Trichurus lepturus	0.79	9	1.43
Bembrops anatrostris	0.53	14	0.96
SOLENOCERIDAE	0.26	32	0.47
Peristadion gracile	0.26	19	0.47
Pronotogrammus eos	0.26	5	0.47
Argentina sp.	0.00	9	
GALATHIIDAE	0.00	9	
Benthodesmus tenuis	0.00	4	
Dibranchius atlanticus	0.00	4	
Synchiropus agassizii	0.00	14	
Polymixia lowei	0.00	4	
Chaulichthys sloani	0.00	4	
Xenion sp.	0.00	5	
Total	55.40		99.99

PROJECT STATION: 397
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 5949
 TIME : 15:19 start stop duration
 LOG : 537.10 539.10 2.00 Purpose code: 3 Area code : 3
 FDEPTH: 603 609 GearCond.code: 3
 BDEPTH: 603 609 Validity code:
 Towing dir: 320° Wire out: 1050 m Speed: 20 kn*10
 Sorted: 29 Kg Total catch: 97.70 CATCH/HOUR: 97.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
LEPIDOTRUTHIDAE	16.50	27	16.89
Miscellaneous fish	16.50		16.89
Epigonus macrops	12.30	96	12.59
Synagrops bellus	11.40	93	11.67
Dipllophos maderensis	9.00	106	9.21
Plesionopeus edwardsianus	7.20	116	7.37
ISOPODS	5.70	21	5.83
Geryon sp.	4.50	6	4.61
Ornithoteutis antillarum	3.00	18	3.07
SOLENOCERIDAE	2.00	27	2.05
Physiculus fulvus	1.80	33	1.84
Benthodesmus tenuis	1.50	21	1.54
Malacocephalus occidentalis	1.50	51	1.54
Coelorrhinus caribbaeus	0.90	3	0.92
SEPIOLIDAE	0.60	15	0.61
MORIDAE	0.60	9	0.61
Nealotus tripes	0.60	15	0.61
Bathypterois quadrifilis	0.60	16	0.61
Aristeus viridens	0.60	3	0.61
Argyrolepiscus sp	0.00	3	
Melanostomias macrophothus	0.00	3	
Total	97.70		100.00

PROJECT STATION: 394
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 936 Long W 5943
 TIME : 06:40 start stop duration
 LOG : 501.80 503.10 1.30 Purpose code: 3 Area code : 3
 FDEPTH: 200 204 GearCond.code: 3
 BDEPTH: 200 204 Validity code:
 Towing dir: 320° Wire out: 750 m Speed: 15 kn*10
 Sorted: 24 Kg Total catch: 47.90 CATCH/HOUR: 47.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Pristipomoides macrophthalmus	20.60	244	43.01
230			
Peristadion gracile	10.80	480	22.55
Synodus poeyi	7.80	158	16.28
Trachurus lathami	3.20	18	6.68
Decapterus tabl	1.80	6	3.76
Illex illecebrosus	1.60	34	3.34
Ommastrephes pteropus	0.60	4	1.25
Pontinus rathbuni	0.60	8	1.25
Syacium microrum	0.40	6	0.84
Pronotus carolinus	0.40	4	0.84
Peristadion truncatum	0.10	2	0.21
Antigonia capros	0.00	2	
Antigonia combata	0.00	2	
Total	47.90		100.01

PROJECT STATION: 395
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 951 Long W 5945
 TIME : 09:45 start stop duration
 LOG : 520.70 522.60 1.90 Purpose code: 3 Area code : 3
 FDEPTH: 509 505 GearCond.code: 3
 BDEPTH: 509 505 Validity code:
 Towing dir: 325° Wire out: 1500 m Speed: 20 kn*10
 Sorted: 22 Kg Total catch: 45.00 CATCH/HOUR: 45.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Miscellaneous fish	7.80		17.33
ISOPODS	6.80	8	15.11
Epigonus macrops	5.00	80	11.56
Malacocephalus occidentalis	5.00	40	11.11
SOLENOCERIDAE	4.80	250	10.67
Synagrops bellus	4.80	42	10.67
Benthodesmus tenuis	2.80	98	6.22
Physiculus sp	1.80	18	4.00
PANDALIDAE	1.80	98	4.00
Geryon sp.	1.20	2	2.67
HIPPOLYTIIDAE	0.60	22	1.33
Parasudis truculentus	0.40	14	0.89
Chaunax pinnatus	0.40	8	0.89
Nealotus tripes	0.30	8	0.67
Bembrops anatrostris	0.30	10	0.67
Plesionopeus edwardsianus	0.30	4	0.67
Illex illecebrosus	0.30	2	0.67
Peristadion gracile	0.20	16	0.44
LOBNIO	0.20	8	0.44
Peristadion truncatum	0.00	2	
Total	45.00		100.01

PROJECT STATION: 396
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 951 Long W 5949
 TIME : 12:07 start stop duration
 LOG : 529.90 531.20 1.30 Purpose code: 3 Area code : 3
 FDEPTH: 395 410 GearCond.code: 8
 BDEPTH: 395 410 Validity code:
 Towing dir: 331° Wire out: 1250 m Speed: 10 kn*10
 Sorted: 27 Kg Total catch: 79.80 CATCH/HOUR: 79.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Synagrops bellus	12.90	264	16.17
Polymixia lowei	9.60	123	12.03
Illex illecebrosus	8.10	63	10.15
SOLENOCERIDAE	7.80	363	9.77
Lophodes sp.	7.50	3	9.40
Physiculus fulvus	6.30	6	7.89
Heptanchias porio	4.50	3	5.64
Parasudis truculentus	4.20	81	5.26
Epigonus macrops	3.30	72	4.14
ISOPODS	3.00	9	3.76
Geryon sp.	3.00	6	3.76
Malacocephalus occidentalis	2.10	39	2.63
Chlorophthalmus sp.	1.80	57	2.26
Xenopodichthys dalgleishi	1.50	96	1.88
Raja sp	1.50	3	1.88
Scyliorhinus boa	1.20	9	1.50
Neopinnula orientalis	0.60	3	0.75
Diplophos maderensis	0.30	60	0.38
TRICANTHODIDAE	0.30	6	0.38
Xenion sp.	0.30	21	0.38
Plesionika sp	0.00	3	
Coelorrhinus caribbaeus	0.00	9	
Dibranchius atlanticus	0.00	3	
Setarches quanthori	0.00	6	
Total	79.80		100.01

PROJECT STATION: 398
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1004 Long W 5959
 TIME : 18:12 start stop duration
 LOG : 551.70 553.20 1.50 Purpose code: 3 Area code : 3
 FDEPTH: 383 380 GearCond.code: 3
 BDEPTH: 383 380 Validity code:
 Towing dir: 325° Wire out: 1250 m Speed: 15 kn*10
 Sorted: 29 Kg Total catch: 44.20 CATCH/HOUR: 44.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Parasudis truculentus	15.60	468	35.29
Synagrops bellus	8.10	117	18.33
Miscellaneous fish	7.40		16.74
ISOPODS	2.10	3	4.75
LOBNIO	1.40	135	3.17
Steindachneria argenta	1.40	23	3.17
Illex illecebrosus	1.20	8	2.71
Malacocephalus occidentalis	1.10	24	2.49
PANDALIDAE	0.60	84	1.36
Geryon sp.	0.60	2	1.36
LEPIDOTRUTHIDAE	0.50	2	1.13
SOLENOCERIDAE	0.50	23	1.13
Mexilloculus albidus	0.50	2	1.13
Stomopterus virens	0.50	11	1.13
Polymixia lowei	0.50	9	1.13
Raja clarki	0.45	2	1.02
POLYCHELIDAE	0.30	17	0.68
Bembrops anatrostris	0.30	5	0.68
Peristadion gracile	0.30	10	0.68
RajIDAE	0.30	2	0.68
Ornithoteutis antillarum	0.20	3	0.45
Pontinus rathbuni	0.15	3	0.34
Plesionopeus edwardsianus	0.10	2	0.23
Xenopodichthys dalgleishi	0.10	3	0.23
Plesionika sp	0.00	3	
Total	44.20		100.01

PROJECT STATION: 399
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 951 Long W 6016
 TIME : 22:32 start stop duration
 LOG : 580.30 580.50 0.20 Purpose code: 3 Area code : 3
 FDEPTH: 78 76 GearCond.code: 3
 BDEPTH: 78 76 Validity code:
 Towing dir: 310° Wire out: 350 m Speed: 1 kn*10
 Sorted: 30 Kg Total catch: 212.60 CATCH/HOUR: 425.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Dasystis sp	120.00	4	28.22
Pristipomoides macrophthalmus	90.00	1440	21.17
Pristipomoides stearnsi	88.00	6820	20.70
Saurida sp	25.00	630	5.88
Upeneus parvus	25.00	700	5.88
Nettastoma melanurum	22.00	800	5.17
Lepophidium sp	15.00	30	3.53
Diplectrum sp	7.00	600	1.65
Penaeus brasiliensis	4.20	100	0.99
Haemulon aurolinneatum	3.50	20	0.82
Porichthys sp	3.00	160	0.71
Acanthostracion quadricornis	3.00	40	0.71
Priacanthus arenatus	3.00	40	0.71
Penaeus notialis	2.00	42	0.47
Ophidion sp.	2.00	10	0.47
Caulolatilus intermedius	2.00	10	0.47
Priacanthus carolinus	2.00	50	0.47
Gymnothorax ocellatus	2.00	20	0.47
Sardinella aurita	1.50	10	0.35
Lutjanus purpureus	1.50	10	0.35
Loligo plei	1.00	20	0.24
Rhomboplites aurorubens	1.00	10	0.24
Bucinosotomus argenteus	1.00	10	0.24
Fistularia petimba	0.50	10	0.12
Epinephelus flavolimbatus	0.00	10	
CONGRIDAE	0.00	20	
Lagocephalus laevigatus	0.00	20	
Dactylopterus volitans	0.00	20	
LABRIDAE	0.00	10	
Total	425.20		100.03

PROJECT STATION: 400
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 952 Long W 6033
 start stop duration Purpose code: 3
 TIME : 01:00 01:30 30 (min) Area code : 3
 LOG : 596.40 596.60 0.20 GearCond.code: 3
 FDEPTH: 57 59 Validity code:
 BDEPTH: 57 59
 Towing dir: 300° Wire out: 300 m Speed: 5 kn*10
 Sorted: 10 Kg Total catch: 94.85 CATCH/HOUR: 189.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion jamaicensis	43.20 504	22.77	
Saurida sp	33.60 2112	17.71	
CRABS	31.20	16.45	
Shrimps, small, non comm.	9.60 2976	5.06	
Pristipomoides macrophthalmus	9.60 1032	5.06	
Lepophidium sp	8.40 456	4.43	
Eucinostomus argenteus	7.20 360	3.80	
Eucinostomus notialis	5.50 202	2.90	234
Loligo plei	4.80 96	2.53	
Serranus phoebe	4.80 672	2.53	
Upeneus parvus	4.80 120	2.53	
Mustelus higmani	3.30 6	1.74	
Cyclopssetta chittendeni	2.40 144	1.27	
Loligo pealei	2.40 96	1.27	
Pontinus sp.	2.40 24	1.27	
Isopisthus parvipinnis	2.40 24	1.27	
Porichthys sp	2.40 640	1.27	
Trachurus lathami	2.40 120	1.27	
Nettastoma melanurum	2.40 168	1.27	
Penaeus brasiliensis	2.40 150	1.27	233
Gymnothorax ocellatus	1.50 24	0.79	
Peprilus paru	0.90 4	0.47	
Lutjanus purpurus	0.90 18	0.47	
Sphyræna picudilla	0.60 4	0.32	
Lutjanus synagris	0.30 4	0.16	
Rhomboplites aurorubens	0.30 52	0.16	
Rossia sp	0.00 24		
Scorpaena isthmensis	0.00 24		
Prionotus stearnsi	0.00 168		
Haemulon aurolineatum	0.00 24		
Penaeus subtilis	0.00 2		
Total	189.70	100.04	

PROJECT STATION: 403
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 940 Long W 6037
 start stop duration Purpose code: 3
 TIME : 07:52 08:22 30 (min) Area code : 3
 LOG : 646.40 646.40 GearCond.code: 3
 FDEPTH: 52 52 Validity code:
 BDEPTH: 52 52
 Towing dir: 300° Wire out: 250 m Speed: kn*10
 Sorted: 8 Kg Total catch: 30.60 CATCH/HOUR: 61.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion jamaicensis	35.20 504	57.52	243
Calappa sp	8.00 80	13.07	
Trichiurus lepturus	3.20 128	5.23	
Prionotus punctatus	2.40 48	3.92	
Penaeus subtilis	2.40 192	3.92	
Sardinella aurita	2.00 224	3.27	
Syacium micrum	1.60 240	2.61	
MURAENESOCIDAE	1.60 32	2.61	
Synodus poyei	1.20 64	1.96	
Penaeus notialis	0.80 24	1.31	
Porichthys pauciradiatus	0.80 32	1.31	
Eucinostomus argenteus	0.80 8	1.31	
Haemulon steindachneri	0.40 8	0.65	
OCCEPHALIDAE	0.40 24	0.65	
Diapterus rhombus	0.40 8	0.65	
Lepophidium brevibarbe	0.00 8		
Pracanthus arenatus	0.00 8		
Chloroscombrus chrysurus	0.00 8		
Total	61.20	99.99	

PROJECT STATION: 404
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 937 Long W 6042
 start stop duration Purpose code: 3
 TIME : 09:53 10:23 30 (min) Area code : 3
 LOG : 653.20 653.30 0.10 GearCond.code: 3
 FDEPTH: 35 39 Validity code:
 BDEPTH: 35 39
 Towing dir: 320° Wire out: 200 m Speed: 1 kn*10
 Sorted: 65 Kg Total catch: 1034.00 CATCH/HOUR: 2068.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cyriocentron bleakerianus	725.40 79794	35.08	
Selene setapinnis	434.00 652	20.99	244
Cynoscion jamaicensis	245.00 2512	11.85	245
Harengula jaguana	229.40 6440	11.09	
Trichiurus lepturus	121.00 4712	5.85	
Pellona harroweri	108.60 16802	5.25	
Peprilus paru	43.40 434	2.10	
Mustelus canis	37.20 62	1.80	
Cynoscion virescens	25.80 34	1.25	246
Bagre marinus	14.00 14	0.68	247
Loligo sp	12.40 2696	0.60	
Stellifer sp	9.40 186	0.45	
Micropogonias furnieri	9.40 62	0.45	
Sphyræna picudilla	9.40 248	0.45	
Orthopristis chrysoptera	7.80 32	0.38	
Anchoiella lepidentostole	6.20 2016	0.30	
Anchoa spinifer	6.20 2138	0.30	
Micropogonias furnieri	5.80 6	0.28	
Scomberomorus brasiliensis	4.40 4	0.21	248
Haemulon aurolineatum	3.20 124	0.15	
Diapterus rhombus	3.20 32	0.15	
Elops saurus	3.00 2	0.15	
Sphyræna guachancho	1.60 32	0.08	
Eucinostomus argenteus	1.60 32	0.08	
Arius grandicaesus	0.60 2	0.03	
Selar crumenophthalmus	0.00 124		
Peprilus paru	0.00 806		
Cynoscion jamaicensis	0.00 32		
Penaeus subtilis	0.00 32		
Total	2068.00	100.00	

PROJECT STATION: 401
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 939 Long W 6029
 start stop duration Purpose code: 3
 TIME : 03:42 04:12 30 (min) Area code : 3
 LOG : 616.90 618.90 2.00 GearCond.code: 3
 FDEPTH: 56 56 Validity code:
 BDEPTH: 56 56
 Towing dir: 150° Wire out: 300 m Speed: 35 kn*10
 Sorted: 9 Kg Total catch: 20.90 CATCH/HOUR: 41.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion jamaicensis	10.80 252	25.84	
Penaeus notialis	6.20 176	14.83	236
Sphyræna guachancho	4.80 12	11.48	
Lepophidium sp	4.40 268	10.53	
Saurida sp	2.40 40	5.74	
Serranus phoebe	2.00 120	4.78	
CRABS	2.00	4.78	
Mustelus higmani	1.60 8	3.83	
Porichthys sp	1.20 152	2.87	
Penaeus subtilis	1.20 20	2.87	235
Eucinostomus argenteus	0.80 16	1.91	
Peprilus paru	0.80 4	1.91	
Shrimps, small, non comm.	0.80 256	1.91	
Cyclopssetta chittendeni	0.80 16	1.91	
Loligo plei	0.40 8	0.96	
Nettastoma melanurum	0.40 16	0.96	
Upeneus parvus	0.40 8	0.96	
Pristipomoides macrophthalmus	0.40 48	0.96	
Prionotus stearnsi	0.40 20	0.96	
Laquecephalus laevigatus	0.00 4		
Loligo pealei	0.00 4		
Parexocoetus brachypterus	0.00 4		
Selene setapinnis	0.00 8		
Chloroscombrus chrysurus	0.00 4		
Penaeus brasiliensis	0.00 4		
Total	41.80	99.99	

PROJECT STATION: 405
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 935 Long W 6049
 start stop duration Purpose code: 3
 TIME : 11:13 11:43 30 (min) Area code : 3
 LOG : 659.80 660.30 0.50 GearCond.code: 3
 FDEPTH: 10 12 Validity code:
 BDEPTH: 10 12
 Towing dir: 300° Wire out: 50 m Speed: 10 kn*10
 Sorted: 9 Kg Total catch: 36.25 CATCH/HOUR: 72.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Scomberomorus brasiliensis	15.80 16	21.79	249
Harengula jaguana	9.10 752	12.55	
Cynoscion acoupa	6.40 2	8.83	
Bagre sp.	5.40 6	7.45	
Selene setapinnis	5.40 6	7.45	
Caranx hippos	4.20 326	5.79	
Pellona harroweri	3.80 126	5.24	
Peprilus paru	2.80 696	3.86	
Anchoiella lepidentostole	2.80 4	3.86	
Rhizoprionodon porosus	2.20 2	3.03	
Selene vomer	2.20 2	3.03	
Anchoa spinifer	2.10 52	2.90	
Opisthonema oglinum	2.10 38	2.90	
Macrodon ancylodon	1.60 18	2.21	
Hemicaranx ambyrhynchus	1.60 14	2.21	
Trichiurus lepturus	1.60 78	2.21	
Chloroscombrus chrysurus	1.00 42	1.38	
Cyriocentron bleakerianus	0.00 36		
Odontognathus mucronatus	0.00 32		
Isopisthus parvipinnis	0.00 4		
Selene setapinnis	0.00 8		
Total	72.50	100.00	

PROJECT STATION: 402
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 925 Long W 6036
 start stop duration Purpose code: 3
 TIME : 06:00 06:30 30 (min) Area code : 3
 LOG : 634.30 635.70 1.40 GearCond.code: 3
 FDEPTH: 14 12 Validity code:
 BDEPTH: 14 12
 Towing dir: 300° Wire out: 100 m Speed: 20 kn*10
 Sorted: 30 Kg Total catch: 180.60 CATCH/HOUR: 361.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichiurus lepturus	73.00 3286	20.21	
Peprilus paru	52.00 1730	14.40	
Anchoiella lepidentostole	43.00 6600	11.90	
Odontognathus mucronatus	37.00 3190	10.24	
Scomberomorus brasiliensis	21.80 22	6.04	237
Pellona harroweri	21.00 1400	5.81	
Selene setapinnis	18.00 1020	4.98	238
Rhizoprionodon porosus	17.80 38	4.93	239
Cynoscion virescens	12.80 10	3.54	240
Arius quadriscutis	12.00 60	3.32	
Stellifer microps	9.00 2010	2.49	
Xiphopenaeus kroyeri	9.00 1340	2.49	
Macrodon ancylodon	9.00 60	2.49	
Sphyrna lewini	8.40 2	2.33	241
Nematopalaemon schmitti	6.00 2220	1.66	
Sphyrna tiburo	3.40 2	0.92	242
Isopisthus parvipinnis	2.00 60	0.55	
Bagre bagre	2.00 60	0.55	
Oligoplites saurus	2.00 2	0.55	
Harengula jaguana	1.00 150	0.28	
Anchoa spinifer	1.00 240	0.28	
Penaeus schmitti	0.00 2		
Total	361.20	99.90	

PROJECT STATION: 406
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 945 Long W 6054
 start stop duration Purpose code: 3
 TIME : 14:26 14:56 30 (min) Area code : 3
 LOG : 685.40 686.00 0.60 GearCond.code: 3
 FDEPTH: 36 37 Validity code:
 BDEPTH: 36 37
 Towing dir: 334° Wire out: 200 m Speed: 15 kn*10

Sorted: 73 Kg Total catch: 451.25 CATCH/HOUR: 902.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichurus lepturus	244.00	828	27.12	251
Caranx hippos	97.20	72	10.77	
Bagro sp.	84.60	100	9.37	
Mustelus higmani	81.00	162	0.90	
Selene setapinnis	66.80	84	7.40	250
Micropononias furniori	57.60	100	6.38	
Anchoviella sp	39.10	11274	4.33	
Rhizoprionodon porosus	30.80	60	4.30	
Chirocentron bleekarianus	34.00	5440	3.77	
Scomberomorus cavalla	28.80	18	3.19	
Pomatomus saltatrix	19.80	18	2.19	
Trachinotus caryenensis	19.80	18	2.19	
Albula vulpes	18.00	18	1.99	
Caroharhinus porosus	17.20	4	1.91	
Cynoscion jamaicensis	15.30	136	1.70	
Stellifer sp	10.20	120	1.13	
Peprius paru	8.50	86	0.94	
Trichurus lepturus	6.00	986	0.75	
Pellona harroweri	5.10	1156	0.57	
Sphyrna lewini	4.00	2	0.44	
Anchoa lewalepis	3.40	188	0.38	
Isopisthus parvipinnis	1.70	102	0.19	
Harengula jaguana	0.00	34		
Loligo pealei	0.00	340		
Selene setapinnis	0.00	18		
Total	902.50		99.99	

PROJECT STATION: 407
 DATE: 21/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 942 Long W 6101
 start stop duration Purpose code: 3
 TIME : 16:15 16:45 30 (min) Area code : 3
 LOG : 696.20 697.00 0.80 GearCond.code: 3
 FDEPTH: 11 12 Validity code:
 BDEPTH: 11 12
 Towing dir: 300° Wire out: 50 m Speed: 20 kn*10

Sorted: 81 Kg Total catch: 80.60 CATCH/HOUR: 161.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chaetodipterus faber	105.00	42	65.14	
Scomberomorus brasiliensis	38.60	40	23.95	252
Cynoscion virescens	8.60	2	5.33	
Anchoa sp	2.00	386	1.24	
Hemirhamphus amblyrhynchus	2.00	10	1.24	
Opisthonema oglinum	1.20	14	0.74	
Trichurus lepturus	1.00	68	0.62	
Harengula jaguana	1.00	44	0.62	
Peprius paru	1.00	14	0.62	
Anchoa sp	0.40	4	0.25	
Pellona harroweri	0.40	16	0.25	
Chirocentron bleekarianus	0.00	8		
Echeneis naucrates	0.00	2		
Total	161.20		100.00	

PROJECT STATION: 408
 DATE: 23/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1044 Long W 6141
 start stop duration Purpose code: 3
 TIME : 12:04 12:34 30 (min) Area code : 4
 LOG : 829.50 830.80 1.30 GearCond.code: 4
 FDEPTH: 94 85 Validity code:
 BDEPTH: 94 85
 Towing dir: 270° Wire out: 400 m Speed: 25 kn*10

Sorted: 50 Kg Total catch: 895.40 CATCH/HOUR: 1790.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ctenosciaena gracilicirrus	570.00	6942	31.83	254
Trachurus lathami	450.00	1320	25.13	253
Trichurus lepturus	144.00	1050	0.04	
Mustelus canis	105.00	240	5.86	
Synodus poeyi	105.00	900	5.86	
Priacanthus arenatus	105.00	240	5.86	
Rhizoprionodon lalandii	102.00	60	5.70	
Cynoscion jamaicensis	96.00	570	5.36	
Micropononias furniori	28.60	22	1.60	
Pomatomus saltatrix	25.00	14	1.40	
Scorpaena sp.	9.00	30	0.50	
Serranus sp	6.00	400	0.34	
Gymnothorax ocellatus	6.00	30	0.34	
Lutjanus purpuraceus	6.00	30	0.34	
Prionotus punctatus	6.00	30	0.34	
Calamus pennatula	6.00	30	0.34	
Elops saurus	3.20	2	0.10	
Loligo pealei	3.00	210	0.17	
Bairdiella chrysoleuca	3.00	30	0.17	
Bucinosotomus argenteus	3.00	30	0.17	
Rhomboplites aurorubens	3.00	120	0.17	
Anchoviella sp	3.00	30	0.17	
Hemulon boschmau	1.40	150	0.08	
Upeneus parvus	1.40	120	0.08	
Porichthys sp	0.00	30		
Total	1790.80		100.03	

PROJECT STATION: 409
 DATE: 23/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1052 Long W 6131
 start stop duration Purpose code: 3
 TIME : 17:20 17:53 33 (min) Area code : 4
 LOG : 878.00 879.20 1.20 GearCond.code: 4
 FDEPTH: 83 88 Validity code:
 BDEPTH: 83 88
 Towing dir: 260° Wire out: 350 m Speed: 25 kn*10

Sorted: 88 Kg Total catch: 864.20 CATCH/HOUR: 1571.27

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selene setapinnis	581.64	2038	37.02	255
Cynoscion jamaicensis	281.27	2091	17.90	256
Selar crumenophthalmus	123.09	590	7.83	257
Mustelus canis	119.45	176	7.60	
Ctenosciaena gracilicirrus	83.45	456	5.31	
Trachurus lathami	70.36	229	4.48	258
Prionotus punctatus	38.73	124	2.46	
Paraichthys lethostigma	34.55	10	2.20	
Pomatomus saltatrix	29.09	35	1.05	
Peprius paru	26.36	53	1.60	
Trachinotus caryenensis	22.91	10	1.12	
Rhomboplites aurorubens	17.64	10	1.12	
Priacanthus arenatus	17.64	35	1.12	
Synodus poeyi	15.82	140	1.01	
Rhizoprionodon lalandii	14.91	18	0.95	
Trichurus lepturus	14.00	35	0.89	
Loligo pealei	14.00	229	0.89	
Scorpaena sp.	14.00	10	0.89	
Pristipomoides macrophthalmus	13.27	176	0.84	
Sphyrna picudilla	8.73	10	0.56	
Upeneus parvus	8.73	53	0.56	
Serranus sp	8.73	335	0.56	
Gymnothorax ocellatus	5.27	10	0.34	
Scomberomorus cavalla	4.10	2	0.27	
Sardinella aurita	3.45	53	0.22	
Ogcocephalus pumilus	0.00	35		
Eucinostomus argenteus	0.00	18		
Porichthys sp	0.00	18		
Peneus subtilis	0.00	35		
Total	1571.27		100.01	

PROJECT STATION: 410
 DATE: 23/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1055 Long W 6126
 start stop duration Purpose code: 3
 TIME : 20:40 21:40 60 (min) Area code : 4
 LOG : 897.10 900.50 3.40 GearCond.code: 4
 FDEPTH: 91 88 Validity code:
 BDEPTH: 91 88
 Towing dir: 270° Wire out: 500 m Speed: 30 kn*10

Sorted: 58 Kg Total catch: 905.00 CATCH/HOUR: 905.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ctenosciaena gracilicirrus	320.00	4413	35.36	259
Mustelus canis	217.00	418	23.98	260
Cynoscion jamaicensis	128.60	1906	14.21	
Pristipomoides macrophthalmus	77.50	759	8.56	
Synodus poeyi	20.20	124	2.23	
Prionotus punctatus	10.60	124	2.06	
Xiphopenaus kroyeri	12.40	544	1.37	
Lopophidium profundorum	12.40	201	1.37	
Peprius paru	12.40	16	1.37	
Bairdiella chrysoleuca	9.30	46	1.03	
Trichurus lepturus	9.30	279	1.03	
Prionotus stearnsi	9.30	139	1.03	
Porichthys sp	7.70	77	0.85	
Gymnothorax ocellatus	7.70	16	0.85	
Cynoponticus savanna	7.70	16	0.85	
Upeneus parvus	7.70	46	0.85	
Anchoviella sp	7.70	31	0.85	
Scorpaena brasiliensis	4.60	16	0.51	
Serranus sp	4.60	279	0.51	
Caulolatilus intermedius	3.10	16	0.34	
Prionotus carolinus	2.30	62	0.25	
Halleutichthys sp.	1.50	100	0.17	
Coloanenus sp	1.50	16	0.17	
Fistularia petimba	0.70	1	0.08	
Total	903.80		99.88	

PROJECT STATION: 411
 DATE: 24/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1129 Long W 6112
 start stop duration Purpose code: 3
 TIME : 07:10 07:40 30 (min) Area code : 4
 LOG : 961.70 962.70 1.00 GearCond.code: 3
 FDEPTH: 370 379 Validity code:
 BDEPTH: 370 379
 Towing dir: 270° Wire out: 1350 m Speed: 15 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
NO CATCH	0.00			
Total				

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
DATE: 24/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1122 Long W 6115				
TIME : 08:55 09:00 5 (min) Purpose code: 3				
LOG : 970.20 970.30 0.10 Area code : 4				
FDEPTH: 165 165 GearCond.code: 8				
BDEPTH: 165 165 Validity code: 9				
Towing dir: 210° Wire out: 650 m Speed: 7 kn*10				
Sorted: 12 Kg Total catch: 12.15 CATCH/HOUR: 145.80				

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pronotogrammus eos	54.00	240	37.04	
Pristipomoides macrophthalmus	45.60	444	31.28	261
Trachurus lathami	25.20	72	17.28	
Loligo pealei	9.60	672	6.58	
Synodus saurus	0.40	228	5.76	
Prionotus carolinus	1.80	36	1.23	
Serranus phoebe	0.60	24	0.41	
Upeneus parvus	0.60	12	0.41	
Pareques sp	0.00	12		
Total	145.80		99.99	

PROJECT STATION: 413
 DATE: 24/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1116 Long W 6110
 start stop duration Purpose code: 3
 TIME : 13:40 13:42 2 (min) Area code : 4
 LOG : 986.20 986.20 GearCond.code: 9
 FDEPTH: 126 126 Validity code: 9
 BDEPTH: 126 126
 Towing dir: 243° Wire out: 500 m Speed: 15 kn*10
 Sorted: 3 Kg Total catch: 3.50 CATCH/HOUR: 105.00

PROJECT STATION: 417
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1024 Long W 6010
 start stop duration Purpose code: 3
 TIME : 06:40 07:10 30 (min) Area code : 4
 LOG : 1117.70 1117.70 GearCond.code: 4
 FDEPTH: 395 300 Validity code: 4
 BDEPTH: 395 300
 Towing dir: 340° Wire out: 1400 m Speed: kn*10
 Sorted: 23 Kg Total catch: 49.20 CATCH/HOUR: 98.40

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Pristipomoides macrophthalmus	105.00	750	100.00
Total	105.00	100.00	

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Synagrops bellus	34.00	496	34.55
Steindachneria argenta	14.00	288	14.23
Panacopsis serrata	7.50	968	7.72
Parasudis triculonatus	7.50	120	7.72
Bathynomus giganteus	5.00	12	5.69
Squatina dumeril	5.00	2	5.08
Miscellaneous fish	4.00		4.07
Plecticus robustus	4.00	180	4.07
Illex illecebrosus	2.80	16	2.85
Polymixia lowei	2.60	24	2.64
Epigonus macrops	2.40	40	2.44
Polymetma corythaeola	2.00	92	2.03
Chloropthalmus sp.	1.40	60	1.42
Malacocephalus occidentalis	1.20	4	1.22
Syacium micrurum	0.80	28	0.81
Xenolepidichthys dalgleishi	0.80	40	0.81
Paristodion gracile	0.80	20	0.81
Setarches guentheri	0.40	32	0.41
Ogcocephalus nasutus	0.40	4	0.41
Etmopterus pusillus	0.40	20	0.41
Deoapterus tabl	0.40	4	0.41
Ornithoteutis antillarum	0.20	4	0.20
POLYXETIDAE	0.00	0	
Chascanopsetta lugubris	0.00	0	
Plesionika sp	0.00	16	
CRANGONIDAE	0.00	40	
Total	98.40	100.00	

PROJECT STATION: 414
 DATE: 24/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1103 Long W 6111
 start stop duration Purpose code: 3
 TIME : 15:56 16:26 30 (min) Area code : 4
 LOG : 1001.10 1001.10 GearCond.code: 1
 FDEPTH: 82 84 Validity code: 1
 BDEPTH: 82 84
 Towing dir: 261° Wire out: 350 m Speed: kn*10
 Sorted: 52 Kg Total catch: 52.10 CATCH/HOUR: 104.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Rhomboplites aurorubens	44.60	258	42.80
Pristipomoides macrophthalmus	34.20	434	32.82
Lutjanus purpureus	7.00	4	6.72
Selar crumenophthalmus	4.80	36	4.61
Loligo pealei	3.20	110	3.07
Sphyræna picudilla	3.00	12	2.88
Priacanthus aeneatus	2.20	6	2.11
Etrumeus teres	2.00	48	1.92
Trachurus lathami	1.40	20	1.34
Cyclosetta chittendeni	1.00	2	0.96
Upeneus parvus	0.30	10	0.29
Prionotus stearnsi	0.20	4	0.19
Sardinella aurita	0.20	2	0.19
Serranus phoebe	0.10	4	0.10
Scomber japonicus	0.00	2	
Total	104.20	100.00	

PROJECT STATION: 418
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1011 Long W 5955
 start stop duration Purpose code: 3
 TIME : 10:55 11:50 55 (min) Area code : 4
 LOG : 1140.80 1140.80 GearCond.code: 4
 FDEPTH: 610 595 Validity code: 4
 BDEPTH: 610 595
 Towing dir: 340° Wire out: 1800 m Speed: kn*10
 Sorted: 20 Kg Total catch: 66.10 CATCH/HOUR: 72.11

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Synagrops bellus	24.55	216	34.05
Miscellaneous fish	12.44		17.25
Bathynomus giganteus	11.70	13	16.34
Plesionika edwardsianus	5.67	85	7.06
Malacocephalus occidentalis	4.91	79	6.81
Ornithoteutis antillarum	4.82	46	3.63
Glyphocrangon sp	2.62	530	3.63
Plecticus robustus	1.96	35	2.72
Nealotus tripes	1.64	33	2.27
Physiculus sp	1.31	7	1.82
Bathypterois viridensis	0.90	23	1.36
Nematocarcinus rotundus	0.65	103	0.90
Aristeus viridens	0.65	29	0.90
Nephropsis sp	0.33	20	0.46
Total	72.11	100.00	

PROJECT STATION: 415
 DATE: 24/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1055 Long W 6112
 start stop duration Purpose code: 3
 TIME : 17:35 18:05 30 (min) Area code : 4
 LOG : 1009.00 1009.90 GearCond.code: 4
 FDEPTH: 40 45 Validity code: 4
 BDEPTH: 40 45
 Towing dir: 258° Wire out: 200 m Speed: 1 kn*10
 Sorted: 101 Kg Total catch: 572.70 CATCH/HOUR: 1145.40

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Chirocentron bleakerianus	573.80	241024	50.10
Selene spixii	259.20	832	22.63
Sphyræna guachancho	64.00	86	5.59
Scomberomorus cavalla	45.00	44	3.93
Sphyræna picudilla	33.00	118	2.88
Papilus paru	32.00	74	2.79
Lutjanus purpureus	31.00	32	2.71
Trichurus lepturus	21.40	32	1.87
Mustelus canis	16.00	10	1.40
Lutjanus purpureus	11.80	22	1.03
Rhinochimaera landanai	10.60	22	0.93
Loligo pealei	9.60	790	0.84
Cynoscion jamaicensis	8.60	42	0.75
Trachinotus cayennensis	7.10	6	0.62
Lutjanus synagris	6.90	8	0.60
Aluterus schoepfi	5.80	2	0.51
Rhomboplites aurorubens	3.20	10	0.28
Selar crumenophthalmus	2.20	10	0.19
Caulolatilus intermedium	2.20	10	0.19
Eucinostomus argenteus	1.60	22	0.14
Loligo plei	1.00	10	0.09
Etrumeus teres	1.00	96	0.09
Engraulis eurystole	0.00	54	
Upeneus parvus	0.00	22	
Total	1147.00	100.16	

PROJECT STATION: 419
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1083 Long W 5955
 start stop duration Purpose code: 3
 TIME : 12:53 14:53 60 (min) Area code : 4
 LOG : 1163.00 1163.00 GearCond.code: 4
 FDEPTH: 607 563 Validity code: 4
 BDEPTH: 607 563
 Towing dir: 9° Wire out: 1800 m Speed: kn*10
 Sorted: 21 Kg Total catch: 59.50 CATCH/HOUR: 59.50

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Synagrops bellus	21.30	172	35.80
Miscellaneous fish	16.20		27.23
Glyphocrangon sp	4.00	540	6.72
Steindachneria argenta	3.50	45	5.88
Plesionika edwardsianus	3.20	61	5.38
Orthopristis sp	3.00	62	5.04
Physiculus sp	2.50	15	4.20
Plecticus robustus	2.30	48	3.87
Gempylus serpens	1.70	1	2.86
Pholidoteuthis adami	0.80	1	1.34
Nematocarcinus rotundus	0.40	75	0.67
Aristeus viridens	0.40	35	0.67
Paristodion gracile	0.10	2	0.17
Nephropsis sp	0.10	10	0.17
Total	59.50	100.00	

PROJECT STATION: 416
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1019 Long W 6017
 start stop duration Purpose code: 3
 TIME : 03:50 04:50 60 (min) Area code : 4
 LOG : 1104.40 1104.40 GearCond.code: 4
 FDEPTH: 204 179 Validity code: 4
 BDEPTH: 204 179
 Towing dir: 339° Wire out: 850 m Speed: kn*10
 Sorted: 38 Kg Total catch: 76.70 CATCH/HOUR: 76.70

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Pristipomoides macrophthalmus	38.80	458	50.59
Synodus foetens	13.00	266	16.95
Syacium micrurum	4.40	260	5.74
NETTASTOMATIDAE	2.60	134	3.39
Sphyræna guachancho	2.20	2	2.87
Synagrops bellus	1.90	130	2.48
POLYXETIDAE	1.80	50	2.35
Lepophidium profundorum	1.70	28	2.22
SOLENOCEPHALIDAE	1.60	62	2.09
Ogcocephalus nasutus	1.60	6	2.09
PORTUNIDAE	1.20	20	1.56
Antigonos combatis	1.20	26	1.56
Xiphopenaeus kroyeri	1.00	10	1.30
Pikoa mexicana	1.00	34	1.30
Porichthys sp	0.80	36	1.04
Paristodion gracile	0.30	6	0.39
Loligo pealei	0.20	16	0.26
Illex illecebrosus	0.20	2	0.26
Nealotus tripes	0.20	2	0.26
Pontinus rathbuni	0.20	16	0.26
Lophiodon sp.	0.20	4	0.26
Prionotus stearnsi	0.20	12	0.26
Prionotus carolinus	0.20	12	0.26
Ariocoma bondi	0.20	2	0.26
GALAXIDAE	0.00	14	
Synchrops agassizii	0.00	2	
Bembrops anatrostris	0.00	2	
Total	76.70	100.00	

PROJECT STATION: 420
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1003 Long W 5947
 start stop duration Purpose code: 3
 TIME : 17:35 18:35 60 (min) Area code : 4
 LOG : 1181.70 1181.70 GearCond.code: 4
 FDEPTH: 722 702 Validity code: 4
 BDEPTH: 722 702
 Towing dir: 324° Wire out: 1900 m Speed: kn*10
 Sorted: 18 Kg Total catch: 50.70 CATCH/HOUR: 50.70

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Miscellaneous fish	16.30		32.15
Polymetma corythaeola	10.00	150	19.72
Plesionika edwardsianus	5.00	71	9.86
Acanthephyra armata	4.50	220	8.88
Nematocarcinus rotundus	3.00		5.92
Bathynomus giganteus	2.50	50	4.93
Bathygadus melanobranchus	2.30	50	4.54
Benthodesmus tenuis	1.80	25	3.55
Nesuxia cyranus	1.30	35	2.56
Gadomus arcuatus	1.30	10	2.56
Glyphocrangon sp	0.80	120	1.58
Coelocirinus caribbaeus	0.80	8	1.58
Ornithoteutis antillarum	0.60	30	1.18
Nephropsis sp	0.50	30	0.99
Total	50.70	100.00	

PROJECT STATION: 421
 DATE: 25/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1012 Long W 5952
 TIME : 20:10 20:55 45 (min) Purpose code: 3
 LOG : 1188.30 1189.00 0.20 Area code : 4
 FDEPTH: 735 730 GearCond.code: 4
 BDEPTH: 735 730 Validity code:
 Towing dir: 320° Wire out: 1900 m Speed: 1 kn*10
 Sorted: 35 Kg Total catch: 35.65 CATCH/HOUR: 47.53

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Miscellaneous fish	8.27		17.40	
Pholidotoutia adami	8.00	4	16.03	
Bathynomus gigantous	7.33	87	15.42	
Plesiopeanaeus edwardsianus	5.33	73	11.21	274
Stereomastis sculpta	4.00	123	8.42	
Nematocarcinus rotundus	4.00		8.42	
Pleoticus robustus	3.20	133	6.73	275
Polynema corythocla	2.53	29	5.33	
Benthodesmus tenuis	1.47	20	3.09	
Coelorrinchus occa	1.33	11	2.80	
Bathytrophops marionae	0.47	1	0.99	
Anacanthobatis sp.	0.40	3	0.84	
Nephropsis sp	0.40	12	0.84	
Ornithoteutis antillarum	0.33	16	0.69	
Glyphorangon sp	0.27	64	0.57	
Coelorrinchus sp	0.13	1	0.27	
Pristiodon gracile	0.07	3	0.15	
Total	47.53		99.99	

PROJECT STATION: 425
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1021 Long W 6045
 TIME : 12:00 12:30 30 (min) Purpose code: 3
 LOG : 1286.50 1286.70 0.20 Area code : 4
 FDEPTH: 42 36 GearCond.code: 4
 BDEPTH: 42 36 Validity code:
 Towing dir: 318° Wire out: 250 m Speed: 5 kn*10
 Sorted: 27 Kg Total catch: 53.50 CATCH/HOUR: 107.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	16.00	460	14.95	283
Lutjanus synagris	14.00	36	13.08	
Lutjanus purpurus	14.00	204	11.96	284
Rhizoprionodon porosus	12.00	4	11.21	
Sphyrana guachancho	10.00	16	9.35	
Sphyrana picudilla	10.00	44	9.35	
Scomberomorus brasiliensis	9.20	16	8.60	
Rhomboplites aurorubens	6.00	152	5.61	
Upeneus parvus	3.20	60	2.99	
Opisthonema oglinum	2.80	56	2.62	
Rhinobatos percellens	2.00	4	1.87	
Loligo plei	2.00	32	1.87	
Eucinostomus argenteus	2.00	48	1.87	
Calamus bajonado	1.60	4	1.50	
Caranx crysos	1.20	12	1.12	
Selar crumenophthalmus	1.20	8	1.12	
Haemulon aurolineatum	0.80	4	0.75	
Docapterus punctatus	0.20	8	0.19	
Total	107.00		100.01	

PROJECT STATION: 422
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1016 Long W 6007
 TIME : 01:20 01:50 30 (min) Purpose code: 3
 LOG : 1217.80 1217.80 Area code : 4
 FDEPTH: 402 398 GearCond.code: 4
 BDEPTH: 402 398 Validity code:
 Towing dir: 316° Wire out: 1400 m Speed: kn*10
 Sorted: 19 Kg Total catch: 19.00 CATCH/HOUR: 38.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Miscellaneous fish	17.00		44.74	
Bathynomus gigantous	9.00	18	23.68	
Pleoticus robustus	7.40	316	19.47	
Glyphorangon sp	2.40	312	6.32	
Stereomastis sculpta	1.80	64	4.74	
Nephropsis sp	0.20	10	0.53	
Plesiopeanaeus edwardsianus	0.20	12	0.53	
Total	38.00		100.01	

PROJECT STATION: 426
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1016 Long W 6048
 TIME : 14:40 15:10 30 (min) Purpose code: 3
 LOG : 1305.40 1306.00 0.60 Area code : 4
 FDEPTH: 37 37 GearCond.code: 4
 BDEPTH: 37 37 Validity code:
 Towing dir: 311° Wire out: 200 m Speed: 10 kn*10
 Sorted: 17 Kg Total catch: 186.30 CATCH/HOUR: 372.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	235.80	736	63.29	285
Haemulon boschmae	37.60	1316	10.09	
Rhomboplites aurorubens	25.60	456	10.09	286
Upeneus parvus	20.00	392	5.37	
Calamus bajonado	16.80	48	4.51	
Eucinostomus argenteus	14.40	256	3.86	
Sphyrana picudilla	4.00	2	1.07	
Priacanthus cruentatus	4.00	64	1.07	
Haemulon aurolineatum	4.00	32	1.07	
Balistes vetula	4.00	8	1.07	
Rhinobatos percellens	3.20	8	0.85	
Eucinostomus gula	2.40	16	0.64	
Monacanthus sp	0.80	2	0.21	
Total	372.60		99.98	

PROJECT STATION: 423
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1015 Long W 6037
 TIME : 07:10 07:40 30 (min) Purpose code: 3
 LOG : 1125.10 1252.50 1.40 Area code : 4
 FDEPTH: 54 57 GearCond.code: 4
 BDEPTH: 54 57 Validity code:
 Towing dir: 90° Wire out: 300 m Speed: 30 kn*10
 Sorted: 24 Kg Total catch: 24.30 CATCH/HOUR: 48.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus cavalla	14.00	28	30.45	276
Eucinostomus argenteus	7.00	172	14.40	
Upeneus parvus	6.00	218	12.35	
Mustelus canis	4.00	6	8.23	
Loligo plei	3.40	112	7.00	
Lutjanus purpureus	2.70	32	5.56	
Loligo pealei	2.00	212	4.12	
Pristipomoides macrophthalmus	1.40	104	2.88	
Priacanthus arenatus	1.40	40	2.47	
Balistes vetula	1.20	2	2.47	
Rhomboplites aurorubens	1.00	44	2.06	
Gymnothorax ocellatus	1.00	6	2.06	
Penaeus brasiliensis	0.80	26	1.65	277
Raja clarki	0.50	2	1.03	
Diplectrus formosum	0.40	4	0.82	
Sardinella aurita	0.30	4	0.62	
Chloroscombrus chrysurus	0.30	12	0.62	
Selar crumenophthalmus	0.20	2	0.41	
Diplectrus sp	0.20	2	0.41	
Dactylopterus voltians	0.20	2	0.41	
Decapterus macarellus	0.00	2		
Serranus phoebe	0.00	8		
Total	48.60		100.02	

PROJECT STATION: 427
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1006 Long W 6055
 TIME : 10:25 10:55 30 (min) Purpose code: 3
 LOG : 1330.50 1331.80 1.30 Area code : 4
 FDEPTH: 45 49 GearCond.code: 4
 BDEPTH: 45 49 Validity code:
 Towing dir: 198° Wire out: 250 m Speed: 30 kn*10
 Sorted: 57 Kg Total catch: 200.20 CATCH/HOUR: 400.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	145.80	2016	36.41	
Ctenosciades gracilicirrhus	56.40	2274	14.09	
Mustelus higmani	48.00	108	11.99	
Micropononias furnieri	32.00	40	7.99	287
Chirocentron bleekeriianus	18.60	3570	6.65	
Bagra bagra	12.40	12	3.10	
Narcine brasiliensis	12.00	6	3.00	
Trichurus lepturus	11.40	414	2.85	
Penaeus notialis	8.00	400	2.00	289
Pellona harroweri	7.60	660	1.90	
Penaeus brasiliensis	6.60	550	1.65	290
Prionotus punctatus	6.00	60	1.50	
Lutjanus synagris	6.00	30	1.50	
Sphyrana guachancho	6.00	6	1.50	
Synodus foetens	3.60	18	0.90	
Porichthys sp	3.60	1446	0.90	
Upeneus parvus	3.60	48	0.90	
Lepophidium profundorum	3.00	42	0.75	
Haemulon steindachneri	2.40	18	0.60	
Diapterus rhombeus	2.40	12	0.60	
Cyclosetta sp.	1.80	30	0.45	
Dactylopterus voltians	1.80	12	0.45	
Saurida sp	1.00	36	0.25	
Lagocephalus laevigatus	1.00	24	0.25	
Selene spixii	0.60	6	0.15	
Total	400.40		100.03	

PROJECT STATION: 424
 DATE: 26/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1024 Long W 6038
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 1268.70 1268.70 Area code : 4
 FDEPTH: 54 50 GearCond.code: 4
 BDEPTH: 54 50 Validity code:
 Towing dir: 320° Wire out: 300 m Speed: kn*10
 Sorted: 15 Kg Total catch: 24.10 CATCH/HOUR: 48.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus cavalla	12.00	22	24.90	278
Chloroscombrus chrysurus	11.00	320	22.82	279
Lutjanus purpurus	5.40	42	11.20	280
Sphyrana guachancho	5.00	8	10.37	281
Loligo plei	3.20	132	6.64	282
Eucinostomus argenteus	2.60	42	5.39	
Upeneus parvus	2.00	54	4.15	
Rhizoprionodon lalandii	1.60	2	3.32	
Lutjanus synagris	1.00	6	2.07	
Sphyrana picudilla	1.00	4	2.07	
Prionotus punctatus	0.80	2	1.66	
Loligo pealei	0.70	32	1.45	
Selar crumenophthalmus	0.66	16	1.24	
Priacanthus arenatus	0.50	10	1.04	
Pristipomoides macrophthalmus	0.40	18	0.83	
Rhomboplites aurorubens	0.30	20	0.62	
Diapterus rhombeus	0.10	2	0.21	
Total	48.20		99.98	

PROJECT STATION: 428
 DATE: 26/ 5/88 GEAR TYPE: FT No:2 POSITION: Lat N 1003 Long W 6050
 TIME : 20:15 20:40 25 (min) Purpose code: 3
 LOG : 1341.00 1342.50 1.50 Area code : 4
 FDEPTH: 10 10 GearCond.code: 4
 BDEPTH: 53 55 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 25 kn*10
 Sorted: 66 Kg Total catch: 497.10 CATCH/HOUR: 1193.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	601.20	234468	50.39	290
Opisthonema oglinum	267.36	9360	22.41	
Sardinella aurita	100.80	5004	8.45	
Engraulis eurystole	100.80	25380	8.45	
Anchoviella brevirostris	66.72	20719	5.59	
Trichurus lepturus	30.72	235	2.57	
Scomberomorus cavalla	9.12	19	0.76	
Lepidion paru	9.12	19	0.76	
Haemulon jaguana	7.20	180	0.60	
Scomberidae juveniles	0.00	19		
Total	1193.04		99.90	

DATE: 27/ 5/88 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1005 Long W 6045
 TIME : 22:05 22:35 30 (min) Purpose code: 3
 LOG : 1352.00 1352.00 Area code : 4
 FDEPTH: 59 52 GearCond.code: 4
 BDEPTH: 59 52 Validity code:
 Towing dir: 360° Wire out: 350 m Speed: kn*10

Sorted: 27 Kg Total catch: 114.15 CATCH/HOUR: 228.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Ctenoscoiaena gracilicirrus	56.00	920	24.53
Cynoscion jamaicensis	54.40	560	23.03
Narcine brasiliensis	28.00	16	12.26
Prionotus punctatus	11.20	64	4.91
Penaeus notialis	10.40	446	4.56
Peprilus paru	9.60	48	4.20
Bagre bagre	0.00	8	3.05
Upeneus parvus	6.40	80	2.80
Trichurus lepturus	5.60	136	2.45
Opisthonema oglinum	4.80	104	2.10
Synodus foetans	4.00	120	1.75
Lepophidium profundorum	4.00	104	1.75
Scorpaena plumieri	4.00	8	1.75
Eucinostomus gula	3.20	40	1.40
Lutjanus synagris	2.80	16	1.23
Cyclopetta sp.	2.40	64	1.05
Ogcocephalus sp	2.40	8	1.05
Lagocephalus laevigatus	2.00	8	0.88
Chirocentron bleekeriannus	1.60	128	0.70
Mustelus higmani	1.60	8	0.70
Chloroscombrus chrysurus	1.60	64	0.70
Seranus phoebe	1.20	120	0.53
Parocentotus brachypterus	0.80	48	0.35
Pellona harroweri	0.80	16	0.35
Penaeus brasiliensis	0.70	40	0.31
Total	228.30	99.99	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1005 Long W 6036
 TIME : 00:20 00:50 30 (min) Purpose code: 3
 LOG : 1367.00 1367.00 Area code : 4
 FDEPTH: 70 70 GearCond.code: 4
 BDEPTH: 70 70 Validity code:
 Towing dir: 351° Wire out: 350 m Speed: kn*10

Sorted: 29 Kg Total catch: 57.70 CATCH/HOUR: 115.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Cynoscion jamaicensis	48.00	1008	41.59
Saurida brasiliensis	32.00	640	28.42
Peprilus paru	8.00	36	6.93
Upeneus parvus	3.20	56	2.77
Ctenoscoiaena gracilicirrus	2.80	56	2.43
Penaeus notialis	2.00	88	1.73
Xiphopenaeus kroyeri	2.00	564	1.73
Seranus phoebe	2.00	124	1.73
Lepophidium profundorum	2.00	48	1.73
Trachurus lathami	2.00	12	1.73
Syacium sp.	1.60	56	1.39
Lutjanus synagris	1.60	4	1.39
Selene setapinnis	1.60	24	1.39
Chloroscombrus chrysurus	1.60	32	1.39
Mustelus higmani	1.20	4	1.04
Trichurus lepturus	0.80	24	0.69
Porichthys sp	0.80	112	0.69
Lutjanus purpurus	0.80	4	0.69
Selar crumenophthalmus	0.40	8	0.35
Opisthonema oglinum	0.20	4	0.17
Loligo pealei	0.00	8	
Total	115.40	99.98	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 957 Long W 6047
 TIME : 02:23 02:53 30 (min) Purpose code: 3
 LOG : 1380.20 1380.20 Area code : 4
 FDEPTH: 60 62 GearCond.code: 4
 BDEPTH: 60 62 Validity code:
 Towing dir: 272° Wire out: 300 m Speed: kn*10

Sorted: 7 Kg Total catch: 7.80 CATCH/HOUR: 15.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Peprilus paru	8.00	34	56.41
Cynoscion jamaicensis	4.60	78	29.49
Rhizoprionodon lalandii	1.60	2	10.26
Calappa sulcata	0.20	2	1.28
Citharichthys sp	0.20	2	1.28
Saurida brasiliensis	0.20	4	1.28
Upeneus parvus	0.00	2	
Total	15.60	100.00	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 957 Long W 6047
 TIME : 04:12 04:42 30 (min) Purpose code: 3
 LOG : 1389.30 1389.30 Area code : 4
 FDEPTH: 61 59 GearCond.code: 4
 BDEPTH: 61 59 Validity code:
 Towing dir: 292° Wire out: 200 m Speed: kn*10

Sorted: 12 Kg Total catch: 12.25 CATCH/HOUR: 24.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Chirocentron bleekeriannus	11.00	1078	44.90
Pellona harroweri	3.40	226	13.88
Trichurus lepturus	3.00	366	12.24
Cynoscion jamaicensis	2.80	286	11.43
Peprilus paru	1.60	18	6.53
Prionotus punctatus	1.60	8	6.53
Ctenoscoiaena gracilicirrus	0.40	6	1.63
Penaeus subtilis	0.30	50	1.22
Penaeus notialis	0.20	8	0.82
Porichthys sp	0.20	44	0.82
Total	24.50	100.00	

DATE: 27/ 5/88 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1004 Long W 6100
 TIME : 05:55 06:25 30 (min) Purpose code: 3
 LOG : 1399.20 1399.40 0.20 Area code : 4
 FDEPTH: 50 50 GearCond.code: 4
 BDEPTH: 50 50 Validity code:
 Towing dir: 268° Wire out: 200 m Speed: 5 kn*10

Sorted: 31 Kg Total catch: 133.50 CATCH/HOUR: 267.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Ctenoscoiaena gracilicirrus	67.20	1120	25.17
Cynoscion jamaicensis	52.40	10704	19.63
Chirocentron bleekeriannus	41.60	9472	15.58
Cynoscion jamaicensis	38.40	424	14.38
Trichurus lepturus	25.60	800	9.59
Bagre bagre	9.20	14	3.45
Pellona harroweri	9.20	632	3.45
Pellona harroweri	5.60	160	2.10
Penaeus subtilis	5.20	544	1.95
Cynoscion virgatus	2.80	4	1.05
Prionotus punctatus	2.00	48	0.75
Rhizoprionodon lalandii	1.80	2	0.67
Bagre marinus	1.60	2	0.60
Zalilutes mcgintyi	1.60	16	0.60
Peprilus paru	1.20	8	0.45
Porichthys sp	0.80	264	0.30
Penaeus brasiliensis	0.00	72	0.30
Penaeus notialis	0.00	16	
Haliutichthys rouleiatus	0.00	24	
Prionotus carolinus	0.00	16	
Total	267.00	100.02	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1004 Long W 6100
 TIME : 10:00 10:30 30 (min) Purpose code: 3
 LOG : 1421.30 1421.90 0.60 Area code : 4
 FDEPTH: 46 41 GearCond.code: 4
 BDEPTH: 46 41 Validity code:
 Towing dir: 250° Wire out: 250 m Speed: 15 kn*10

Sorted: 98 Kg Total catch: 1363.30 CATCH/HOUR: 2726.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Chirocentron bleekeriannus	992.20	190704	36.39
Scomberomorus cavalla	464.60	684	17.04
Anchoa sp	396.40		14.54
Pellona harroweri	237.80	24244	8.72
Chloroscombrus chrysurus	123.00	820	4.51
Cynoscion jamaicensis	123.00	1038	4.51
Selene setapinnis	82.00	930	3.01
Sardinella aurita	79.20	2054	2.90
Mustelus higmani	41.00	54	1.50
Lutjanus synagris	40.00	90	1.47
Opisthonema oglinum	39.60	5166	1.45
Peprilus paru	30.00	218	1.10
Orthopristis ruber	21.80	110	0.80
Sphyrna guachancho	19.20	54	0.70
Trichurus lepturus	9.60	492	0.35
Synodus pogyi	8.20	54	0.30
Chaetodipterus faber	5.40	28	0.20
Anchoviella lepidostole	5.40	1586	0.20
Harengula jaguana	5.40	3170	0.20
Diapterus rhombeus	2.80	82	0.10
Upeneus parvus	0.00	54	
Total	2726.60	99.99	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1004 Long W 6106
 TIME : 11:25 11:55 30 (min) Purpose code: 3
 LOG : 1426.30 1427.30 1.00 Area code : 4
 FDEPTH: 24 36 GearCond.code: 4
 BDEPTH: 24 36 Validity code:
 Towing dir: 180° Wire out: 150 m Speed: 20 kn*10

Sorted: 23 Kg Total catch: 1172.00 CATCH/HOUR: 2344.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Trichurus lepturus	754.40	9104	32.18
Cynoscion jamaicensis	487.60	5520	20.80
Chloroscombrus chrysurus	322.00	3864	13.74
Diapterus rhombeus	276.00	2024	11.77
Lutjanus synagris	87.80	264	3.75
Chirocentron bleekeriannus	64.40	15272	2.75
Ctenoscoiaena gracilicirrus	55.20	828	2.35
Selene setapinnis	55.20	1380	2.35
Sphyrna tiburo	50.40	12	2.15
Antobatus narinari	50.00	2	2.13
Haemulon steindachneri	46.00	368	1.96
Opisthonema oglinum	18.40	276	0.78
Polydactylus virginicus	18.40	92	0.78
Lutjanus purpurus	14.00	26	0.60
Sphyrna picudilla	13.80	92	0.59
Anchoviella lepidostole	9.20	1104	0.39
Eucinostomus argenteus	9.20	92	0.39
Cynoscion similis	5.40	8	0.23
Pellona harroweri	4.60	184	0.20
Lutjanus analis	2.00	2	0.09
Haemulon aurolineatum	0.00	92	
Sardinella aurita	0.00	92	
Harengula jaguana	0.00	92	
Total	2344.00	99.98	

DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 956 Long W 6106
 TIME : 12:55 13:25 30 (min) Purpose code: 3
 LOG : 1434.50 1434.70 0.20 Area code : 4
 FDEPTH: 54 58 GearCond.code: 4
 BDEPTH: 54 58 Validity code:
 Towing dir: 269° Wire out: 200 m Speed: 5 kn*10

Sorted: 26 Kg Total catch: 65.49 CATCH/HOUR: 130.98

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Trichurus lepturus	49.00	520	30.54
Cynoscion jamaicensis	34.00	2230	25.96
Haemulon steindachneri	17.50	64	13.36
Pellona harroweri	11.00	534	8.40
Lutjanus synagris	8.50	10	6.49
Ctenoscoiaena gracilicirrus	8.00	20	6.11
Chirocentron bleekeriannus	7.50	990	5.73
Opisthonema oglinum	1.50	4	1.15
Harengula jaguana	1.00	50	0.76
Penaeus subtilis	0.50	24	0.38
Diapterus rhombeus	0.50	4	0.38
Chloroscombrus chrysurus	0.50	4	0.38
Loligo pealei	0.24	4	0.38
Penaeus brasiliensis	0.24	16	0.18
Lepophidium sp	0.00	4	
Peprilus paru	0.00	4	
Total	130.98	100.00	

PROJECT STATION: 437
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 956 Long W 6114
 start stop duration
 TIME : 14:00 14:30 30 (min) Purpose code: 3
 LOG : 1438.10 1438.30 0.20 Area code : 4
 FDEPTH: 62 78 GearCond.code:
 BDEPTH: 62 78 Validity code:
 Towing dir: 262° Wire out: 250 m Speed: 5 kn*10
 Sorted: 10 Kg Total catch: 25.00 CATCH/HOUR: 50.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	15.00 176	30.00	
Cynoscion jamaicensis	12.50 1888	25.00	
Ctenosciaena gracilicirrhus	12.50 366	25.00	
Trachinotus cayanensis	6.00 10	12.00	
Chirocentron bleekeriianus	2.00 596	4.00	
Lutjanus purpureus	1.00 10	2.00	
Penaeus brasiliensis	0.50 26	1.00	
Prionotus punctatus	0.50 16	1.00	
Penaeus subtilis	0.00 10		
Peprilus paru	0.00 20		
Total	50.00	100.00	

PROJECT STATION: 440
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 956 Long W 6118
 start stop duration
 TIME : 18:00 18:30 30 (min) Purpose code: 3
 LOG : 1457.30 1457.50 0.20 Area code : 4
 FDEPTH: 28 28 GearCond.code:
 BDEPTH: 20 20 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 1 kn*10
 Sorted: 32 Kg Total catch: 160.50 CATCH/HOUR: 321.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	125.00 2040	38.94	299
Scomboromorus cavalla	96.60 180	30.09	300
Eucinostomus argenteus	35.00 780	10.90	
Trichiurus lepturus	20.00 920	6.23	
Lutjanus purpureus	11.00 210	3.43	301
JUVENILE FISHES	7.00		
Lutjanus synagris	7.00 90	2.18	
Loligo pealei	3.00 50	0.93	
Sphyrna tiburo	2.60 2	0.81	
Loligo plei	2.00 20	0.62	
Synodus poeyi	2.00 20	0.62	
Opisthonema oglinum	2.00 140	0.62	
Penaeus brasiliensis	1.60 120	0.50	
Pellona harroweri	1.60 70	0.50	
Diapterus rhombeus	1.60 10	0.50	
Anchoviella lepidentostole	1.00 290	0.31	
Selene spixii	1.00 20	0.31	
Chloroscombrus chrysurus	1.00 50	0.31	
Penaeus notialis	0.00 20		
Sardinella aurita	0.00 20		
Peprilus paru	0.00 10		
Total	321.00	99.98	

PROJECT STATION: 438
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 6112
 start stop duration
 TIME : 15:43 16:13 30 (min) Purpose code: 3
 LOG : 1448.00 1448.10 0.10 Area code : 4
 FDEPTH: 23 21 GearCond.code:
 BDEPTH: 23 21 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 3 kn*10
 Sorted: 23 Kg Total catch: 196.10 CATCH/HOUR: 392.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	261.00 5350	66.75	
Chirocentron bleekeriianus	50.40 8568	12.85	
Cynoscion jamaicensis	11.20 840	2.86	
Anchoa sp	8.40 1064	2.14	
Porichthys sp	8.40 224	2.14	
BOTHIDAE	5.60 56	1.43	
Anchoviella lepidentostole	5.60 1120	1.43	
Opisthonema oglinum	5.60 56	1.43	
Lutjanus synagris	5.60 56	1.43	
Diapterus rhombeus	4.20 42	1.07	
Larimus breviceps	4.20 70	1.07	
Pellona harroweri	4.20 140	1.07	
Ctenosciaena gracilicirrhus	2.80 56	0.71	
Squilla empusa	2.80 56	0.71	
Bagre marinus	2.40 2	0.61	
Mustelus higmani	2.00 2	0.51	
Cynoscion virescens	2.00 2	0.51	
Chloroscombrus chrysurus	1.40 56	0.36	
Polydactylus virginicus	1.20 6	0.31	
Micropogonias furnieri	1.00 2	0.25	
Penaeus brasiliensis	0.70 2	0.18	
Lutjanus purpureus	0.70 28	0.18	
Penaeus notialis	0.00 14		
Total	392.20	100.00	

PROJECT STATION: 441
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 6117
 start stop duration
 TIME : 20:25 20:55 30 (min) Purpose code: 3
 LOG : 1467.90 1468.30 0.40 Area code : 4
 FDEPTH: 24 20 GearCond.code:
 BDEPTH: 24 20 Validity code:
 Towing dir: 260° Wire out: 150 m Speed: 10 kn*10
 Sorted: 32 Kg Total catch: 159.60 CATCH/HOUR: 319.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	103.00 2150	32.27	
Diapterus rhombeus	45.00 210	14.10	
Trichiurus lepturus	35.00 680	10.96	
Penaeus brasiliensis	25.00 2680	7.83	302
Chirocentron bleekeriianus	24.00 4300	7.52	
Pellona harroweri	21.00 640	6.50	
Synodus poeyi	18.00 210	5.64	
Eucinostomus argenteus	9.00 1070	2.82	
Porichthys sp	8.00 500	2.51	
Lutjanus synagris	7.60 240	2.38	
Syacium micrurus	5.60 290	1.75	
Lutjanus purpureus	4.60 160	1.44	
SCIARNIDAE	3.00 580	0.94	303
Peprilus paru	2.50 10	0.78	
Lepophidium profundorum	2.00 20	0.63	
Opisthonema oglinum	1.60 60	0.50	
Cyclopaetta chittendeni	1.60 10	0.50	
Prionotus punctatus	1.00 20	0.31	
Diplacetrus formosus	1.00 70	0.31	
Haemulon steindachneri	0.60 20	0.19	
Bairdiella batabana	0.00 30		
Lutjanus purpureus	0.00 180		
Chloroscombrus chrysurus	0.00 30		
POMADASYIDAE	0.00 10		
Total	319.10	99.98	

PROJECT STATION: 439
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 6117
 start stop duration
 TIME : 16:45 17:15 30 (min) Purpose code: 3
 LOG : 1451.00 1451.30 0.30 Area code : 4
 FDEPTH: 20 19 GearCond.code:
 BDEPTH: 20 19 Validity code:
 Towing dir: 262° Wire out: 100 m Speed: 5 kn*10
 Sorted: 31 Kg Total catch: 257.22 CATCH/HOUR: 514.44

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	196.80 2624	38.26	
Micropogonias furnieri	59.20 112	11.51	
Cynoscion jamaicensis	56.00 1472	10.89	
Chirocentron bleekeriianus	48.00 7980	9.33	
Diapterus rhombeus	27.20 128	5.29	
Aetobatus nasirari	21.00 2	4.08	
Lutjanus synagris	19.20 16	3.73	
Bairdiella batabana	11.20 128	2.18	
Polydactylus virginicus	11.20 112	2.18	
Haemulon steindachneri	8.00 64	1.56	
Larimus breviceps	6.40 64	1.24	
Umbrina broussonnetii	5.60 16	1.09	
Menticirrhus americanus	4.80 16	0.93	
Hemicarank amblyrhynchus	4.80 16	0.93	
Peprilus paru	4.80 48	0.93	
Anchoa sp	4.00 1504	0.93	
Chaetodontopterus faber	4.00 16	0.78	
Harengula jaguana	3.20 624	0.62	
Anchoviella lepidentostole	3.20 768	0.62	
Haemulon aurolineatum	2.40 224	0.47	
Chloroscombrus chrysurus	2.40 16	0.47	
Pellona harroweri	2.40 440	0.47	
Eucinostomus argenteus	1.60 16	0.31	
BOTHIDAE	1.60 80	0.31	
Porichthys sp	1.60 144	0.31	
Opisthonema oglinum	1.60 208	0.31	
Synodus poeyi	0.80 16	0.16	
Penaeus brasiliensis	0.64 120	0.12	
Lepophidium sp	0.00 16		
Total	514.44	100.01	

PROJECT STATION: 442
 DATE: 27/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 6112
 start stop duration
 TIME : 22:15 22:45 30 (min) Purpose code: 3
 LOG : 1478.80 1478.80 Area code : 4
 FDEPTH: 30 23 GearCond.code:
 BDEPTH: 30 23 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 1 kn*10
 Sorted: 62 Kg Total catch: 94.10 CATCH/HOUR: 188.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	21.00 1406	11.16	
Eucinostomus argenteus	21.00 256	11.16	
Trichiurus lepturus	19.60 1410	10.41	
Lutjanus synagris	18.60 118	9.88	
Chirocentron bleekeriianus	18.00 3570	9.56	
Micropogonias furnieri	13.20 48	7.01	
Diapterus rhombeus	10.80 48	5.74	
Trichiurus lepturus	8.20 72	4.36	
Larimus breviceps	6.40 76	3.40	
Porichthys sp	6.00 540	3.19	
POMADASYIDAE	5.40 226	2.87	
Syacium micrurus	4.60 210	2.44	
Haemulon steindachneri	4.00 12	2.13	
Cynoscion virescens	3.00 4	1.59	
Orthopristis ruber	3.00 16	1.59	
BOTHIDAE	3.00 30	1.59	
Lepophidium profundorum	2.40 60	1.28	
Prionotus punctatus	2.40 34	1.28	
Rhinobatos percellens	2.40 4	1.28	
Mustelus higmani	2.20 4	1.17	
Rhizoprionodon lalandii	1.80 4	0.96	
Opisthonema oglinum	1.60 30	0.85	
Synodus poeyi	1.60 46	0.85	
Lutjanus synagris	1.60 240	0.85	
Cynoscion jamaicensis	1.60 10	0.85	
Polydactylus virginicus	1.60 6	0.85	
Bairdiella batabana	1.00 4	0.53	
Selene spixii	0.90 4	0.40	
Penaeus brasiliensis	0.60 60	0.32	
Anchoviella lepidentostole	0.40 96	0.21	
Diplacetrus formosus	0.30 4	0.16	
Bothus sp	0.00 30		
Haemulon sp	0.00 30		
Chloroscombrus chrysurus	0.00 30		
Bagre sp.	0.00 30		
Squilla empusa	0.00 24		
Total	188.20	100.00	

PROJECT STATION: 443
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1003 Long W 6106
 start stop duration
 TIME : 00:19 00:49 30 (min) Purpose code: 3
 LOG : 1490.60 1491.00 0.40 Area code : 4
 PDEPTH: 33 39 GearCond.code: 4
 BDEPTH: 33 39 Validity code:
 Towing dir: 184° Wire out: 150 m Speed: 10 kn*10

Sorted: 38 Kg Total catch: 238.00 CATCH/HOUR: 476.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	176.00	2406	36.97	304
Diapterus rhombus	120.00	704	25.21	
Microgogonias furnieri	44.00	76	9.24	
Trichiurus lepturus	38.40	1408	8.07	
Prionotus punctatus	16.00	160	3.36	
Lutjanus synagris	16.00	48	3.36	
Cynoscion similis	16.00	16	3.36	
Selene spixii	12.00	176	2.69	
Chirocentron bleekeri	11.20	3780	2.35	
Macrion steindachneri	4.80	48	1.01	
Lepophidium sp	3.20	128	0.67	
Porichthys sp	3.20	240	0.67	
Chloroscobrus chrysurus	3.20	128	0.67	
Pellona harroweri	2.40	96	0.50	
Lutjanus purpurus	2.40	80	0.50	
Citharichthys sp	1.60	112	0.34	
Synodus poeyi	1.60	120	0.34	
Anchoa sp	1.60	496	0.34	
Penaeus brasiliensis	0.80	160	0.17	
Anchoa mitchilli	0.80	128	0.17	
Pristipomoides macrophthalmaus	0.00	40		
Penaeus notialis	0.00	32		
Eucinostomus argenteus	0.00	32		
Opisthonema oglinum	0.00	32		
Total	476.00		99.99	

PROJECT STATION: 446
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 949 Long W 6058
 start stop duration
 TIME : 05:55 06:25 30 (min) Purpose code: 3
 LOG : 1520.00 1520.70 0.70 Area code : 4
 PDEPTH: 44 43 GearCond.code: 4
 BDEPTH: 44 43 Validity code:
 Towing dir: 280° Wire out: 200 m Speed: 15 kn*10

Sorted: 35 Kg Total catch: 252.80 CATCH/HOUR: 505.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciaena gracilicirrhus	96.60	826	19.11	
Mustelus higmani	92.40	154	18.28	
Trichiurus lepturus	71.40	1820	14.12	
Macrodon ancylodon	54.60	378	10.80	
Microgogonias furnieri	49.00	238	9.69	
Cynoscion panamensis	22.40	510	4.43	
Cynoscion steindachneri	19.60	350	3.88	
Cynoscion virocoens	10.00	0	3.56	
Bagre marinus	16.80	42	3.32	
Isopisthus parvipinnis	14.00	266	2.77	
Chirocentron bleekeri	14.00	1960	2.77	
Prionotus punctatus	0.40	112	1.66	
SCIAENIDAE	0.40	2100	1.66	
Cynoscion jamaicensis	7.00	84	1.38	
Chaetodipterus faber	2.80	28	0.55	
Paralichthys brasiliensis	2.80	14	0.55	
Pellona harroweri	2.20	490	0.44	
Porichthys pasciadradius	2.20	28	0.44	
Polydactylus virginicus	2.20	14	0.44	
Penaeus notialis	0.80	70	0.16	
OCOCCEPHALIDAE	0.00	168		
Total	505.60		100.01	

PROJECT STATION: 444
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1003 Long W 6100
 start stop duration
 TIME : 02:10 02:40 30 (min) Purpose code: 3
 LOG : 1501.60 1501.80 0.20 Area code : 4
 PDEPTH: 47 42 GearCond.code: 4
 BDEPTH: 47 42 Validity code:
 Towing dir: 250° Wire out: 250 m Speed: 5 kn*10

Sorted: 33 Kg Total catch: 256.40 CATCH/HOUR: 512.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	272.00	5374	53.04	
Prionotus punctatus	49.60	64	9.67	
Trichiurus lepturus	40.00	2252	9.36	
Mustelus higmani	32.00	32	6.24	
Chirocentron bleekeri	24.00	6320	4.68	
Microgogonias furnieri	24.00	30	4.68	
Selene spixii	11.20	192	2.10	
Cynoscion similis	8.00	8	1.56	
Chloroscobrus chrysurus	6.40	80	1.25	
Lepophidium sp	6.40	144	1.25	
Hemicaranx amblyrhynchus	4.80	16	0.94	
Synodus poeyi	4.80	176	0.94	
Sardinella aurita	4.00	96	0.94	
Pellona harroweri	3.20	352	0.62	
Opisthonema oglinum	3.20	160	0.62	
Porichthys sp	2.40	432	0.47	
Pristipomoides macrophthalmaus	2.40	240	0.47	
Ctenosciaena gracilicirrhus	1.60	352	0.31	
Diapterus rhombus	1.60	16	0.31	
Penaeus notialis	0.80	48	0.16	
Penaeus brasiliensis	0.80	96	0.16	
Eucinostomus argenteus	0.80	32	0.16	
Penaeus schmitti	0.80	32		
Upeneus parvus	0.00	16		
Total	512.80		100.01	

PROJECT STATION: 447
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 948 Long W 6108
 start stop duration
 TIME : 07:30 08:00 30 (min) Purpose code: 3
 LOG : 1528.60 1529.10 0.50 Area code : 4
 PDEPTH: 28 32 GearCond.code: 4
 BDEPTH: 28 32 Validity code:
 Towing dir: 306° Wire out: 150 m Speed: 10 kn*10

Sorted: 27 Kg Total catch: 119.10 CATCH/HOUR: 238.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa sp	58.80	25998	24.69	
Anchoa lyolepis	52.80	21714	22.17	
Trichiurus lepturus	23.40	300	9.82	
Scorberomorus brasiliensis	12.00	6	5.37	
Oligoplites saurus	12.00	6	5.21	
Bagre marinus	12.00	6	5.04	
Elops saurus	12.00	6	5.04	
Cynoponticus savanna	9.60	2	4.03	
Pomatomus saltatrix	7.20	4	3.02	
Chirocentron bleekeri	6.00	1464	2.52	
Arius grandicassus	6.00	2	2.52	
Cynoscion steindachneri	4.80	48	2.02	
Bagre marinus	3.60	36	1.51	
Selene spixii	3.60	36	1.43	
Penaeus notialis	2.20	84	0.84	
Selene spixii	2.00	2	0.84	
Rhizoprionodon lalandii	1.80	6	0.76	
Anchoa spinifer	1.20	468	0.50	
Peprilus paru	1.20	12	0.50	
Synodus poeyi	1.20	24	0.50	
Ctenosciaena gracilicirrhus	1.00	6	0.42	
Sardinella aurita	0.60	6	0.25	
Cynoscion jamaicensis	0.60	6	0.25	
Oligoplites saurus	0.60	6	0.25	
Harengula jaguana	0.60	54	0.25	
Prionotus punctatus	0.40	6	0.17	
Total	238.20		100.00	

PROJECT STATION: 445
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6101
 start stop duration
 TIME : 03:40 04:10 30 (min) Purpose code: 3
 LOG : 1509.80 1510.10 0.30 Area code : 4
 PDEPTH: 52 51 GearCond.code: 4
 BDEPTH: 52 51 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 5 kn*10

Sorted: 30 Kg Total catch: 159.10 CATCH/HOUR: 318.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	105.00	1110	33.00	
Ctenosciaena gracilicirrhus	100.00	3360	31.43	
Cynoscion similis	25.00	50	7.86	
Fish larvae	23.00	10	7.23	
Peprilus paru	20.00	10	6.29	
Opisthonema oglinum	15.00	80	4.71	
Carcharinus porosus	7.50	10	2.36	
Bagre marinus	5.00	20	1.57	
Lutjanus synagris	3.00	10	0.94	
Prionotus punctatus	2.00	70	0.63	
Penaeus subtilis	1.80	116	0.57	300
Trichiurus lepturus	1.50	30	0.47	
Lepophidium sp	1.50	50	0.47	
Synodus poeyi	1.50	20	0.47	
Ogcocephalus sp	1.00	160	0.31	
Bothus sp	1.00	10	0.31	
Pellona harroweri	1.00	60	0.31	
Eucinostomus argenteus	1.00	50	0.31	
Penaeus notialis	1.00	22	0.31	307
Penaeus brasiliensis	1.00	34	0.31	306
Penaeus schmitti	0.40	14	0.13	305
Harengula jaguana	0.00	10		
Total	318.20		99.99	

PROJECT STATION: 448
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 952 Long W 6114
 start stop duration
 TIME : 08:50 09:20 30 (min) Purpose code: 3
 LOG : 1535.10 1535.10 Area code : 4
 PDEPTH: 47 55 GearCond.code: 4
 BDEPTH: 47 55 Validity code:
 Towing dir: 277° Wire out: 250 m Speed: kn*10

Sorted: 10 Kg Total catch: 72.60 CATCH/HOUR: 145.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrodon ancylodon	30.00	316	20.66	309
Trichiurus lepturus	16.60	106	11.43	
Ctenosciaena gracilicirrhus	15.00	316	10.33	
Cynoscion steindachneri	15.00	166	10.33	
Microgogonias furnieri	15.00	30	10.33	
Mustelus higmani	13.60	30	9.37	
Bagre marinus	10.60	16	7.30	
Cynoponticus savanna	8.20	16	5.65	
Bagre bagre	8.20	16	5.65	
Prionotus punctatus	4.60	16	3.17	
Peprilus paru	3.00	30	2.07	
Penaeus notialis	2.20	120	1.52	
MURAENIDAE	1.60	30	1.10	
Lepophidium sp	1.60	16	1.10	
CYNOGLOSSIDAE	0.60	30		
Syacium micrurum	0.00	46		
Total	145.20		100.01	

PROJECT STATION: 449
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 955 Long W 6128
 start stop duration
 TIME : 11:15 11:45 30 (min) Purpose code: 3
 LOG : 1547.10 1547.10 Area code : 4
 PDEPTH: 75 59 GearCond.code: 4
 BDEPTH: 75 59 Validity code:
 Towing dir: 280° Wire out: 400 m Speed: kn*10

Sorted: 7 Kg Total catch: 218.20 CATCH/HOUR: 436.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciaena gracilicirrhus	313.60	9016	71.86	
Cynoscion jamaicensis	76.00	1024	17.60	
Cynoscion brasiliensis	38.40	9600	0.60	
Orthopristia poeyi	6.40	64	1.47	
Penaeus subtilis	1.20	142	0.27	310
Penaeus brasiliensis	0.00	4		
Total	436.40		100.00	

PROJECT STATION: 450
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 6126
 start stop duration Purpose code: 3
 TIME : 13:10 13:45 35 (min) Area code : 4
 LOG : 1556.00 1556.90 0.10 GearCond.code: 4
 FDEPTH: 19 19 Validity code:
 BDEPTH: 19 19
 Towing dir: 239° Wire out: 75 m Speed: 1 kn*10
 Sorted: 2 Kg Total catch: 1.55 CATCH/HOUR: 2.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrodon ancylodon	2.23	27	83.83	
Sicyonia sp.	0.17	57	6.39	
BOTHIDAE	0.09	41	3.30	
Loligo plei	0.09	2	3.30	
Trichurus lepturus	0.09	3	3.30	
Penaeus brasiliensis	0.00	3		
Saurida sp	0.00	5		
Eucinostomus argenteus	0.00	7		
Ogcocephalus sp	0.00	2		
Prionotus punctatus	0.00	7		
Lutjanus purpureus	0.00	7		
Lutjanus synagris	0.00	2		
Total	2.67		100.36	

PROJECT STATION: 453
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 950 Long W 6140
 start stop duration Purpose code: 3
 TIME : 16:55 17:13 18 (min) Area code : 4
 LOG : 1570.50 1571.40 0.90 GearCond.code: 5
 FDEPTH: 35 28 Validity code: 1
 BDEPTH: 35 28
 Towing dir: 103° Wire out: 200 m Speed: 35 kn*10
 Sorted: 13 Kg Total catch: 13.30 CATCH/HOUR: 44.33

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrodon ancylodon	16.67	357	37.60	
Trichurus lepturus	9.67	303	21.01	
Microponogonias furnieri	6.00	10	13.53	
Penaeus subtilis	4.83	357	10.90	315
Bagre marinus	4.00	3	9.02	
Ophiocion sp	0.67	03	1.51	
Trachypenaeus sp	0.50	103	1.13	
Loligo plei	0.50	3	1.13	
Lepophidium sp	0.33	3	0.74	
Penaeus schmitti	0.33	40	0.74	
Anchoa spinifer	0.33	30	0.74	
Synodus poeyi	0.33	3	0.74	
Chaetodipterus faber	0.17	7	0.38	
Penaeus notialis	0.00	3		
Total	44.33		99.97	

PROJECT STATION: 451
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 956 Long W 6131
 start stop duration Purpose code: 3
 TIME : 14:15 14:45 30 (min) Area code : 4
 LOG : 1560.10 1560.10 GearCond.code: 4
 FDEPTH: 27 26 Validity code:
 BDEPTH: 27 26
 Towing dir: 280° Wire out: 150 m Speed: kn*10
 Sorted: 17 Kg Total catch: 05.40 CATCH/HOUR: 170.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	36.00	86	21.00	312
Trachinotus cayennensis	22.00	24	12.00	
Microponogonias furnieri	18.40	16	10.77	
Eucinostomus argenteus	15.20	588	8.90	
Scorpaenomoropus brasiliensis	11.20	22	6.56	
Scorpaenomoropus cavalla	0.80	8	5.15	
Synodus poeyi	8.00	84	4.60	
Lutjanus purpureus	7.60	96	4.45	311
Chloroscombrus chrysurus	6.80	264	3.98	
Loligo plei	6.00	144	3.51	
Anchoa sp	6.00	1500	3.51	
Diapterus rhombus	5.60	56	3.28	
Loligo pealei	4.40	300	2.58	
Harengula jaguana	2.80	40	1.64	
Trichurus lepturus	2.00	396	1.17	
Sphyræna guachancho	1.60	4	0.94	
Opiatromma oglinus	1.60	92	0.94	
Selene spixii	1.40	12	0.82	
Diplocterus formosus	1.20	16	0.70	
Penaeus brasiliensis	1.20	80	0.70	314
Penaeus notialis	1.20	52	0.70	313
Prionotus punctatus	0.60	4	0.35	
BOTHIDAE	0.40	20	0.23	
Peprilus paru	0.40	4	0.23	
Chirocentron bleekeriannus	0.40	104	0.23	
Engraulis sp	0.00	4		
Sphyræna sp	0.00	16		
Anchoa sp	0.00	20		
Sardinella aurita	0.00	8		
Lutjanus synagris	0.00	10		
Total	170.80		99.98	

PROJECT STATION: 454
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 6156
 start stop duration Purpose code: 3
 TIME : 18:05 18:35 30 (min) Area code : 4
 LOG : 1577.90 1577.90 GearCond.code: 4
 FDEPTH: 35 31 Validity code:
 BDEPTH: 35 31
 Towing dir: 280° Wire out: 150 m Speed: kn*10
 Sorted: 40 Kg Total catch: 385.20 CATCH/HOUR: 770.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrodon ancylodon	374.40	6792	48.60	316
Microponogonias furnieri	193.20	264	25.00	317
Trichurus lepturus	52.00	1176	6.05	
Arius grandicassisi	36.00	24	4.67	
Ophiocion panamensis	28.80	2016	3.74	
Penaeus subtilis	26.40	1872	3.43	318
Cynoscion steindachneri	21.60	3120	2.80	
Eucinostomus argenteus	14.40	288	1.87	
Anchoa spinifer	6.00	480	0.78	
Penaeus notialis	4.80	240	0.62	
Peprilus paru	4.80	48	0.62	
Trachypenaeus sp	3.60	1488	0.47	
CYNOGLOSSIDAE	2.40	72	0.31	
Penaeus schmitti	1.20	120	0.16	
Pollona harrouri	0.00	48		
Penaeus brasiliensis	0.00	24		
Nematopalaemon schmitti	0.00	600		
Total	770.40		100.00	

PROJECT STATION: 452
 DATE: 20/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 958 Long W 6140
 start stop duration Purpose code: 3
 TIME : 15:35 16:05 30 (min) Area code : 4
 LOG : 1565.70 1565.70 GearCond.code: 4
 FDEPTH: 19 18 Validity code:
 BDEPTH: 19 18
 Towing dir: 275° Wire out: 100 m Speed: kn*10
 Sorted: 9 Kg Total catch: 100.65 CATCH/HOUR: 217.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Microponogonias furnieri	71.20	76	32.77	
Bagre marinus	30.00	22	13.81	
Lutjanus synagris	22.00	418	10.49	
Sphyrna tiburo	20.20	2	9.30	
Harengula jaguana	11.40	546	5.25	
Trichurus lepturus	11.40	186	5.25	
Penaeus brasiliensis	7.20	1122	3.31	
Anchoa sp	6.00	1100	2.76	
Cynoscion similis	5.00	8	2.21	
Diapterus rhombus	4.80	36	2.02	
Scorpaenomoropus brasiliensis	4.40	6	1.38	
Anchoa sp	3.00	1164	1.38	
Chirocentron bleekeriannus	3.00	480	1.38	
Eucinostomus argenteus	3.00	60	1.38	
Oligopites saurus	2.60	4	1.20	
Synodus poeyi	2.40	12	1.10	
Penaeus saltatrix	2.00	2	0.92	
Selene spixii	1.60	2	0.74	
Diplocterus formosus	1.20	132	0.55	
Loligo pealei	0.90	60	0.41	
Loligo plei	0.60	84	0.28	
Orthopristis sp	0.60	66	0.28	
Chloroscombrus chrysurus	0.60	36	0.28	
Trachinocephalus myops	0.30	6	0.14	
Lutjanus purpureus	0.30	30	0.14	
Penaeus notialis	0.00	12		
Prionotus punctatus	0.00	24		
Total	217.30		100.02	

PROJECT STATION: 455
 DATE: 30/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1052 Long W 6255
 start stop duration Purpose code: 3
 TIME : 12:15 12:45 30 (min) Area code : 3
 LOG : 1738.00 1738.00 GearCond.code: 3
 FDEPTH: 60 62 Validity code:
 BDEPTH: 60 62
 Towing dir: 270° Wire out: 250 m Speed: kn*10
 Sorted: 82 Kg Total catch: 123.30 CATCH/HOUR: 246.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Peprilus paru	105.60	216	42.02	319
Selene spixii	90.00	82	36.50	320
Rhizoprionodon porosus	15.60	16	6.33	
Loligo sp	12.00	3756	4.87	
Sphyræna picudilla	8.70	34	3.53	
Microponogonias furnieri	4.80	4	1.95	
Sphyræna guachancho	4.20	6	1.70	
Scorpaenomoropus cavalla	1.50	6	0.61	
Loligo pealei	1.20	18	0.49	
Loligo plei	0.90	10	0.36	
Trichurus lepturus	0.60	10	0.24	
Upeneus parvus	0.60	4	0.24	
Etrumeus teres	0.60	28	0.24	
Chirocentron bleekeriannus	0.30	34	0.12	
Sardinella aurita	0.00	4		
Total	246.60		100.00	

PROJECT STATION: 456
 DATE: 30/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1019 Long W 6245
 start stop duration Purpose code: 3
 TIME : 16:30 17:00 30 (min) Area code : 3
 LOG : 1773.50 1773.50 GearCond.code: 3
 FDEPTH: 66 64 Validity code:
 BDEPTH: 66 64
 Towing dir: 275° Wire out: 300 m Speed: kn*10
 Sorted: 27 Kg Total catch: 212.40 CATCH/HOUR: 424.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmaus	259.20	7182	61.02	
Upeneus parvus	88.00	2298	20.72	
Rhombolites aurorubens	16.00	224	3.77	
Pagrus pagrus	14.40	16	3.39	
Loligo plei	8.00	96	1.88	
Balistes vetula	8.00	16	1.88	
Fistularia petiaba	4.80	32	1.13	
Acanthostracion quadricornis	4.80	16	1.13	
Synodus poeyi	4.00	48	1.13	
Haemulon aurolineatum	4.00	32	0.94	
Decapterus macarellus	4.00	48	0.56	
Haemulon steindachneri	2.40	32	0.56	
Ariomma bondi	1.60	32	0.38	
Serranus dewagori	1.60	16	0.38	
Lagocephalus laevigatus	1.60	32	0.38	
Synodus sp	1.60	16	0.38	
Priacanthus arenatus	1.60	48	0.38	
Total	424.80		100.01	

PROJECT STATION: 457
 DATE: 30/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 6253
 TIME : 19:50 start stop duration 30 (min) Purpose code: 3
 LOG : 1799.40 1799.40 Area code : 3
 FDEPTH: 520 640 GearCond.code: 3
 BDEPTH: 520 640 Validity code:
 Towing dir: 275° Wire out: 1500 m Speed: kn*10
 Sorted: 4 Kg Total catch: 3.90 CATCH/HOUR: 7.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chauliodus sloani	2.00 84	25.64	
Bathynomus giganteus	0.60 4	7.69	
Epigonus anctrops	0.60 6	7.69	
Hydrotaeus alberti	0.60 2	7.69	
Gonostoma elongatum	0.60 24	6.41	
Glyphocrangon sp	0.40 58	5.13	
Synagrops bellus	0.40 2	5.13	
PARALEPIDIDAE	0.40 2	5.13	
Ornithoteutis antillarum	0.40 6	5.13	
Benthodesmus tenuis	0.40 8	5.13	
Shrimps, small, non comm.	0.30 316	3.85	
Nezumia cyrano	0.30 8	3.85	
Physiculus sp	0.30 2	3.85	
Aristatus viridans	0.20 6	2.56	
Aganthephyra sp.	0.20 4	2.56	
Raja sp	0.20 2	2.56	
TRACHICHTHYIDAE	0.00 8		
Malacocteus niger	0.00 2		
Argyropelecus aculeatus	0.00 8		
Melanostomias sp.	0.00 4		
Total	7.80	100.00	

PROJECT STATION: 458
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1134 Long W 6325
 TIME : 06:55 start stop duration 30 (min) Purpose code: 3
 LOG : 1879.80 1879.90 0.10 Area code : 3
 FDEPTH: 70 71 GearCond.code: 3
 BDEPTH: 70 71 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: kn*10
 Sorted: 31 Kg Total catch: 191.90 CATCH/HOUR: 383.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trachurus lathami	196.80 8064	51.28	321
Pristipomoides macrophthalms	92.40 2952	24.08	322
Upeneus parvus	29.40 1416	7.65	323
Loligo plei	16.20 288	4.22	
Priacanthus arenatus	10.20 36	2.66	
Rhomboplites aurorubens	9.20 42	2.40	
Loligo plei	8.40 84	2.19	
Caulolatilus intermedius	5.40 12	1.41	
Fistularia petimba	4.80 36	1.25	
Sardinella aurita	3.60 108	0.94	
Haemulon boschmae	2.40 12	0.63	
Synodus poeyi	1.20 24	0.31	
Haemulon aurolineatum	1.20 12	0.31	
Decapterus tabl	1.20 24	0.31	
Prionotus carolinus	0.60 12	0.16	
Ancylosetta quadrocellata	0.60 2	0.16	
Sycaeus sp.	0.20 2	0.05	
Ariomma regulus	0.00 12		
POLYCHELIDAE	0.00 36		
Total	383.00	100.02	

PROJECT STATION: 459
 DATE: 31/ 5/88 GEAR TYPE: PT No:4 POSITION: Lat N 1132 Long W 6322
 TIME : 08:25 start stop duration 30 (min) Purpose code: 1
 LOG : 1885.70 1887.20 1.50 Area code : 3
 FDEPTH: 0 0 GearCond.code: 3
 BDEPTH: 68 66 Validity code:
 Towing dir: 100° Wire out: 50 m Speed: 30 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
N O C A T C H	0.00		
Total			

PROJECT STATION: 460
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 6311
 TIME : 10:25 start stop duration 30 (min) Purpose code: 3
 LOG : 1898.40 1898.50 0.10 Area code : 3
 FDEPTH: 61 61 GearCond.code: 3
 BDEPTH: 61 61 Validity code:
 Towing dir: 213° Wire out: 350 m Speed: kn*10
 Sorted: 32 Kg Total catch: 165.20 CATCH/HOUR: 330.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Upeneus parvus	125.00 9038	37.03	326
Pristipomoides macrophthalms	124.00 6200	37.53	327
Priacanthus arenatus	16.50 480	4.99	
Rhomboplites aurorubens	15.00 660	4.54	325
Trachurus lathami	15.00 550	4.54	324
Loligo plei	9.00 220	2.72	
Mustelus canis	7.40 2	2.24	
Synodus poeyi	7.00 250	2.12	
Ariomma bondi	5.00 210	1.51	
Loligo plei	2.00 40	0.61	
Diplectrum bivittatum	1.50 40	0.45	
Eucinostomus argenteus	1.00 10	0.30	
Penaeus brasiliensis	1.00 20	0.30	
Ariomma regulus	1.00 20	0.30	
Haemulon boschmae	0.00 10		
Total	330.40	99.98	

PROJECT STATION: 461
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1119 Long W 6318
 TIME : 12:20 start stop duration 30 (min) Purpose code: 3
 LOG : 1910.00 1911.30 1.30 Area code : 3
 FDEPTH: 36 33 GearCond.code: 3
 BDEPTH: 36 33 Validity code:
 Towing dir: 172° Wire out: 150 m Speed: 25 kn*10
 Sorted: 10 Kg Total catch: 97.00 CATCH/HOUR: 194.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo plei	27.20 2414	14.02	
Etrunus teres	26.40 10032	13.61	
Rhizoprionodon porosus	19.00 16	9.79	
Synodus poeyi	18.60 1114	9.59	
Caranx hippos	16.00 2	8.25	
Pristipomoides macrophthalms	13.60 2618	7.01	
Caranx crysos	12.40 6	6.39	
Prionotus punctatus	8.40 26	4.33	
Scomberomorus cavalla	0.20 6	4.23	
Opisthonema oglinum	6.00 312	3.09	
Lutjanus purpurus	6.00 4	3.09	
Sphyraena picudilla	6.00 22	3.09	
Aluterus monoceros	3.60 6	1.86	
Upeneus parvus	3.20 424	1.65	
Eucinostomus gula	3.20 24	1.65	
Sphyraena guachancho	3.20 4	1.65	
Mustelus higmani	3.00 4	1.55	
Selene vomer	3.00 2	1.55	
Porichthys sp	1.60 8	0.82	
Eucinostomus argenteus	1.60 16	0.82	
Acanthostracion quadricornis	1.40 6	0.72	
Dactylopterus volitans	1.40 4	0.72	
Trachurus lathami	0.80 32	0.41	
Penaeus brasiliensis	0.20 2	0.10	
Total	194.00	99.99	

PROJECT STATION: 462
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6319
 TIME : 14:40 start stop duration 30 (min) Purpose code: 3
 LOG : 1923.30 1923.30 Area code : 3
 FDEPTH: 32 34 GearCond.code: 3
 BDEPTH: 32 34 Validity code:
 Towing dir: 287° Wire out: 150 m Speed: kn*10
 Sorted: 24 Kg Total catch: 24.60 CATCH/HOUR: 49.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo plei	17.00 1216	34.55	328
Sphyraena guachancho	13.40 62	27.24	
Lutjanus purpureus	6.60 2	13.41	
Lutjanus analis	3.00 90	6.10	
Sphyraena picudilla	2.00 2	4.07	
Etrunus teres	1.40 44	2.85	
Orthopristis ruber	1.40 4	2.85	
Trachurus lathami	1.20 36	2.44	
Dactylopterus volitans	0.60 2	1.22	
Acanthostracion quadricornis	0.50 2	1.02	
Eucinostomus argenteus	0.40 8	0.81	
Lutjanus synagris	0.40 4	0.81	
Rhomboplites aurorubens	0.40 20	0.81	
Diplectrum bivittatum	0.30 8	0.61	
Sardinella aurita	0.30 6	0.61	
Diplectrum formosum	0.20 2	0.41	
Synodus poeyi	0.10 6	0.20	
Total	49.20	100.01	

PROJECT STATION: 463
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1057 Long W 6331
 TIME : 16:35 start stop duration 21 (min) Purpose code: 3
 LOG : 1935.60 1935.80 0.20 Area code : 3
 FDEPTH: 34 40 GearCond.code: 5
 BDEPTH: 34 40 Validity code: 1
 Towing dir: 240° Wire out: 150 m Speed: 10 kn*10
 Sorted: 30 Kg Total catch: 29.90 CATCH/HOUR: 85.43

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo plei	28.57 877	33.44	
Rhomboplites aurorubens	26.29 594	30.77	
Priacanthus arenatus	5.71 294	6.68	
Sphyraena guachancho	4.86 29	5.69	
Aluterus monoceros	3.71 3	4.34	
OCTOPODIDAE	2.86 9	3.35	
Balistas vetula	2.86 6	3.35	
Synodus poeyi	2.14 40	2.50	
Dactylopterus volitans	2.00 23	2.34	
Diplectrum formosum	2.00 17	2.34	
Lutjanus purpureus	1.43 20	1.67	
Diplectrum bivittatum	1.14 9	1.33	
Trachurus lathami	0.43 17	0.50	
Serranus dawsoni	0.43 3	0.50	
Fistularia petimba	0.43 11	0.50	
Haemulon aurolineatum	0.29 3	0.34	
Scomber japonicus	0.14 3	0.16	
Upeneus parvus	0.14 11	0.16	
Lagocephalus laevigatus	0.00 3		
Total	85.43	99.96	

PROJECT STATION: 464
 DATE: 31/ 5/88 GEAR TYPE: BT No:1 POSITION: Lat N 1051 Long W 6337
 start stop duration Purpose code: 3
 TIME : 18:15 18:45 30 (min) Area code : 5
 LOG : 1946.80 1947.50 0.70 GearCond.code: 3
 FDEPTH: 35 35 Validity code:
 BDEPTH: 35 35
 Towing dir: 270° Wire out: 200 m Speed: 15 kn*10

Sorted: 34 Kg Total catch: 189.80 CATCH/HOUR: 379.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Sardinella aurita	120.00	4000	31.61
Harengula jaguana	34.50	550	9.09
Sphyræna picudilla	32.00	140	8.43
Archosargus rhomboidalis	29.50	80	7.77
Scorpaenomorrus cavalla	28.60	6	7.53
Trachurus lathami	26.00	40	6.85
Popilrus paru	23.50	40	6.19
Loligo plei	16.50	560	4.35
Loligo sp	14.00	3	3.69
Loligo pealei	9.50	440	2.50
Sphyræna quachancho	9.50	10	2.50
Paralichthys tropicus	6.00	12	1.58
Dairdiella sanotaeluociae	5.00	20	1.32
Cynoscion jamaicensis	5.00	40	1.32
Synodus foetens	4.50	10	1.19
Panaeus notialis	3.00	80	0.79
Larimus breviseps	3.00	10	0.79
Orthopristis ruber	2.50	10	0.66
Cathorops spixii	2.00	10	0.53
Trachinotus carolinus	1.50	2	0.40
Eucinostomus argenteus	1.00	20	0.26
Synodus intermedius	1.00	40	0.26
Diplectrum bivittatum	1.00	10	0.26
Priacanthus arenatus	0.50	20	0.13
Panaeus brasiliensis	0.00	10	
Sphoeroides testudineus	0.00	10	
Total	379.60	100.00	

PROJECT STATION: 462
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1123 Long W 6329
 start stop duration Purpose code: 3
 TIME : 06:10 06:40 30 (min) Area code : 3
 LOG : 12027.60 2027.60 FDEPTH: 43 44 GearCond.code: 3
 BDEPTH: 43 44 Validity code:
 Towing dir: 310° Wire out: 250 m Speed: kn*10

Sorted: 55 Kg Total catch: 54.80 CATCH/HOUR: 109.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Pristipomoides macrophthalmus	26.20	1730	23.91
Scorpaenomorrus cavalla	25.60	12	23.36
Upeneus parvus	19.40	1008	17.70
Loligo plei	12.50	576	11.41
Sphyræna picudilla	8.00	42	7.30
Synodus poeyi	4.00	328	4.38
Synodus foetens	4.50	16	4.11
Diplectrum bivittatum	4.00	78	1.64
Sphyræna quachancho	1.40	2	1.28
Ancyllosetta quadrocclata	1.00	4	0.91
Gymnothorax ocellatus	0.00	6	0.73
Balistes vetula	0.80	2	0.73
PORTUNIDAE	0.80	6	0.73
Rhizophronodon porosus	0.70	2	0.64
Chloroscombrus chrysurus	0.50	2	0.46
Priacanthus arenatus	0.30	4	0.27
Panaeus brasiliensis	0.30	6	0.27
Sycaeus sp.	0.20	4	0.18
Trachurus lathami	0.00	2	
Etrumeus teres	0.00	4	
Octopus vulgaris	0.00	2	
Diplectrum formosum	0.00	8	
Total	109.60	100.01	

PROJECT STATION: 465
 DATE: 31/ 5/88 GEAR TYPE: PT No:4 POSITION: Lat N 1047 Long W 6335
 start stop duration Purpose code: 1
 TIME : 20:05 20:20 15 (min) Area code : 3
 LOG : 1957.70 1950.10 0.40 GearCond.code: 3
 FDEPTH: 32 32 Validity code:
 BDEPTH: 32 32
 Towing dir: 270° Wire out: 75 m Speed: 20 kn*10

Sorted: 22 Kg Total catch: 2000.00 CATCH/HOUR: 8000.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Sardinella aurita	8000.00	85556	100.00
Total	8000.00	100.00	

PROJECT STATION: 469
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1133 Long W 6339
 start stop duration Purpose code: 3
 TIME : 08:15 08:45 30 (min) Area code : 3
 LOG : 2041.60 2041.80 0.20 GearCond.code: 3
 FDEPTH: 62 67 Validity code:
 BDEPTH: 62 67
 Towing dir: 260° Wire out: 350 m Speed: 4 kn*10

Sorted: 67 Kg Total catch: 931.40 CATCH/HOUR: 1862.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Trachurus lathami	756.00	41744	40.58
Scorpaenomorrus cavalla	318.60	5770	17.10
Sardinella aurita	226.80	10044	12.18
Priacanthus arenatus	175.50	514	9.42
Pristipomoides macrophthalmus	81.00	4914	4.35
Salar crumenophthalmus	75.60	2268	4.06
Rhomboplites aurorubens	43.20	1674	2.32
Loligo pealei	37.80	972	2.03
Mycteroperca cidi	34.00	2	1.83
Lutjanus purpureus	26.00	10	1.44
Etrumeus teres	24.30	1080	1.30
Loligo plei	24.30	432	1.30
Lutjanus synagris	14.00	18	0.75
Decapodus macarellus	10.00	100	0.58
Upeneus parvus	8.10	432	0.43
Uraspis secunda	2.00	2	0.15
Scorpaenomorrus cavalla	2.40	2	0.13
Mustelus canis	0.80	4	0.04
Synodus poeyi	0.00	54	
Alucon bondi	0.00	108	
Caulolatilus intermedius	0.00	54	
Serranus atrobranchus	0.00	54	
Total	1862.80	99.99	

PROJECT STATION: 466
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1053 Long W 6316
 start stop duration Purpose code: 3
 TIME : 00:35 01:05 30 (min) Area code : 3
 LOG : 1995.90 1995.90 0.10 GearCond.code: 3
 FDEPTH: 46 40 Validity code:
 BDEPTH: 46 40
 Towing dir: 323° Wire out: 200 m Speed: kn*10

Sorted: 31 Kg Total catch: 275.00 CATCH/HOUR: 550.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Synodus poeyi	120.00	7500	21.82
Ctenosciaena gracilicirrhus	64.00	1216	11.64
Trichurus lepturus	40.00	464	7.27
Caranx hippos	36.20	6	6.58
Arius sp	35.20	304	6.40
Cynoscion jamaicensis	33.60	208	6.11
Loligo plei	32.00	432	5.82
Priacanthus arenatus	24.00	432	4.36
Mustelus higmani	16.00	32	2.91
Forichthys sp	16.00	560	2.91
Microprognias furnieri	13.00	12	2.36
Serranus phoebe	12.80	784	2.33
Prionotus punctatus	12.80	160	2.33
Chirocentron bleekermanus	12.80	912	2.33
Lepophidium sp	11.20	640	2.04
Diplectrum formosum	9.60	144	1.75
Loligo pealei	8.00	400	1.45
Pristipomoides macrophthalmus	8.00	208	1.45
Trachurus lathami	8.00	128	1.45
Sardinella aurita	6.40	48	1.16
Eucinostomus argenteus	6.40	32	1.16
Haemulon steindachneri	4.80	32	0.87
Diplectrum bivittatum	4.00	112	0.73
Pellona harroweri	4.00	32	0.73
Panaeus brasiliensis	4.00	68	0.73
Dactylopterus volitans	3.20	32	0.50
Lutjanus synagris	2.40	10	0.44
Haemulon boschmae	1.60	32	0.29
Sycaeus micrurus	0.00	16	
Lagocephalus laevigatus	0.00	16	
Total	550.00	100.00	

PROJECT STATION: 470
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1124 Long W 6350
 start stop duration Purpose code: 3
 TIME : 10:20 10:50 30 (min) Area code : 3
 LOG : 2054.90 2055.00 0.10 GearCond.code: 3
 FDEPTH: 42 45 Validity code:
 BDEPTH: 42 45
 Towing dir: 270° Wire out: 250 m Speed: kn*10

Sorted: 69 Kg Total catch: 775.30 CATCH/HOUR: 1550.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Etrumeus teres	1467.40	104104	94.63
Selene spixii	26.60	24	1.72
Loligo plei	22.00	594	1.42
Dactylopterus volitans	6.60	22	0.43
Ogcodaphalus nasutus	6.60	44	0.43
Loligo pealei	6.60	266	0.43
Sardinella aurita	4.40	44	0.28
Uraspis secunda	3.30	2	0.21
Epinephelus flavolimbatus	1.20	2	0.08
Synodus foetens	1.20	2	0.08
Priacanthus arenatus	1.10	2	0.07
Prionotus punctatus	1.00	2	0.06
Caulolatilus intermedius	0.90	2	0.06
Ancyllosetta quadrocclata	0.80	2	0.05
Diplectrum bivittatum	0.80	2	0.05
Forichthys pauciradiatus	0.00	22	
Serranus atrobranchus	0.00	22	
Total	1550.50	100.00	

PROJECT STATION: 467
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1111 Long W 6328
 start stop duration Purpose code: 3
 TIME : 03:15 03:45 30 (min) Area code : 3
 LOG : 2011.80 2011.80 FDEPTH: 32 34 GearCond.code: 3
 BDEPTH: 32 34 Validity code:
 Towing dir: 30° Wire out: 150 m Speed: kn*10

Sorted: 17 Kg Total catch: 164.90 CATCH/HOUR: 329.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Loligo plei	64.00	1940	19.41
Synodus poeyi	56.00	4340	16.98
Upeneus parvus	40.00	2800	12.13
Haemulon steindachneri	30.00	400	9.10
Rhomboplites aurorubens	28.00	800	8.49
Haemulon boschmae	22.00	1200	6.67
OCTOPODIDAE	20.00	20	6.06
Lepophidium sp	10.00	180	3.03
Diplectrum formosum	10.00	220	3.03
Rhizophronodon porosus	10.00	20	3.03
Serranus phoebe	8.00	220	2.43
Sardinella aurita	8.00	160	2.43
Panaeus brasiliensis	6.20	102	1.88
Priacanthus arenatus	4.00	300	1.21
Pecten sp	4.00	120	1.21
Microprognias furnieri	3.60	18	1.09
Ancyllosetta sp.	2.00	60	0.61
Forichthys sp	2.00	20	0.61
Pristipomoides macrophthalmus	2.00	100	0.61
Bothus sp	0.00	40	
Prionotus punctatus	0.00	60	
Paraxocetus brachypterus	0.00	20	
Total	329.80	100.01	

PROJECT STATION: 471
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1129 Long W 6401
 start stop duration Purpose code: 3
 TIME : 12:00 12:30 30 (min) Area code : 3
 LOG : 2064.10 2064.10 FDEPTH: 70 76 GearCond.code: 3
 BDEPTH: 70 76 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: kn*10

Sorted: 35 Kg Total catch: 826.50 CATCH/HOUR: 1653.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
Trachurus lathami	709.50	26690	42.92
Pristipomoides macrophthalmus	421.40	7416	25.49
Rhomboplites aurorubens	215.00	2796	13.01
Lutjanus analis	88.00	14	5.32
Mycteroperca cidi	53.00	2	3.21
Synodus poeyi	25.80	86	1.56
Priacanthus arenatus	25.80	44	1.56
Haemulon steindachneri	25.00	86	1.56
Upeneus parvus	21.50	86	1.30
Scorpaena isthmensis	12.90	130	0.78
Lagocephalus laevigatus	12.90	172	0.78
Loligo plei	8.60	86	0.52
Loligo pealei	8.60	130	0.52
Scorpaena agassizi	8.60	44	0.48
Seriola zonata	8.00	2	0.48
Pistularia petimba	4.20	2	0.25
Serranus flaviventris	2.00	2	0.12
Epinephelus niveatus	1.40	2	0.08
Total	1653.00	99.98	

PROJECT STATION: 472
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1111 Long W 6403
 TIME : 14:33 start stop duration 30 (min) Purpose code: 3
 LOG : 2082.40 2003.30 0.90 Area code : 3
 FDEPTH: 26 29 GearCond.code: 3
 BDEPTH: 26 29 Validity code:
 Towing dir: 262° Wire out: 150 m Speed: 20 kn*10
 Sorted: 17 Kg Total catch: 27.30 CATCH/HOUR: 54.60

PROJECT STATION: 476
 DATE: 2/ 6/88 GEAR TYPE: PT No:2 POSITION: Lat N 1113 Long W 6455
 TIME : 00:35 start stop duration 30 (min) Purpose code: 1
 LOG : 2163.50 2164.20 0.70 Area code : 3
 FDEPTH: 5 8 GearCond.code: 3
 BDEPTH: 22 27 Validity code:
 Towing dir: 15° Wire out: 50 m Speed: 15 kn*10
 Sorted: 10 Kg Total catch: 10.45 CATCH/HOUR: 20.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	11.70	442	21.43	
Loligo plei	9.30	120	17.03	
Scomber japonicus	7.50	166	13.74	345
Synodus poeyi	6.00	300	10.99	
Trachurus lathami	4.50	168	8.24	
Sardinella aurita	3.90	52	7.14	
Loligo pealei	3.60	72	6.59	
OCTOPODIDAE	2.40	2	4.40	
Diplectrum formosum	2.40	16	4.40	
Paralichthys albigutta	2.40	4	4.40	
Prionotus sp	0.60	4	1.10	
Serranus phoebe	0.30	6	0.55	
Ariomma melanum	0.00	6		
Decapterus punctatus	0.00	4		
Priacanthus arenatus	0.00	4		
Total	54.60		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoviella lepidentostole	11.00	1146	52.63	356
Loligo plei	3.00	760	14.35	
Synodus poeyi	2.00	234	9.57	
Etrumeus teres	1.00	142	4.70	
Sphyræna picudilla	0.80	2	3.83	
Sardinella aurita	0.80	40	3.83	
Trichurus lepturus	0.60	2	2.87	
Engraulis aurostole	0.60	44	2.87	
Chirocentron bleekermanus	0.60	74	2.87	
Remora sp.	0.20	4	0.96	
Anchoa lyolepis	0.20	20	0.96	
Selar crumenophthalmus	0.10	2	0.48	
Selene sp	0.00	4		
Decapterus macarellus	0.00	2		
Trachurus lathami	0.00	4		
Haemulon boschmae	0.00	6		
Total	20.90		100.00	

PROJECT STATION: 473
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1114 Long W 6414
 TIME : 16:13 start stop duration 30 (min) Purpose code: 3
 LOG : 2092.50 2092.50 Area code : 3
 FDEPTH: 54 44 GearCond.code: 3
 BDEPTH: 54 44 Validity code:
 Towing dir: 269° Wire out: 250 m Speed: kn*10
 Sorted: 34 Kg Total catch: 311.50 CATCH/HOUR: 623.00

PROJECT STATION: 477
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1154 Long W 6417
 TIME : 07:00 start stop duration 25 (min) Purpose code: 3
 LOG : 2213.00 2213.10 0.10 Area code : 3
 FDEPTH: 135 160 GearCond.code: 3
 BDEPTH: 135 160 Validity code:
 Towing dir: 235° Wire out: 700 m Speed: kn*10
 Sorted: 42 Kg Total catch: 41.90 CATCH/HOUR: 100.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Etrumeus teres	291.60	16638	46.81	346
Pristipomoides macrophthalmus	135.00	6534	21.67	
Loligo plei	55.80	810	8.96	347
Upeneus parvus	43.20	2106	6.93	
Serranus flaviventris	30.60	36	4.91	
Sphyræna picudilla	14.40	126	2.31	
Synodus poeyi	10.80	234	1.73	
Scorpaena brasiliensis	9.00	36	1.44	
Trachurus lathami	9.00	234	1.44	
OCTOPODIDAE	6.00	6	0.96	
Dactylopterus volitans	5.40	18	0.87	
Priacanthus arenatus	3.60	144	0.58	
Eucinostomus argenteus	2.70	54	0.43	
Rhomboplites aurorubens	1.80	72	0.29	
Scorpaena luthmensis	1.80	18	0.29	
Pennaeus brasiliensis	1.20	22	0.19	348
Rhinobatos percoliens	0.60	2	0.06	
Phrynelox scaber	0.40	2	0.06	
Paralichthys albigutta	0.10	2	0.02	
Total	623.00		99.99	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Antigonia capros	30.72	221	30.55	
Epinephelus niveatus	30.74	5	30.07	
Serranus phoebe	10.00	166	10.74	357
Caulolatilus cyanops	9.60	14	9.55	
Seriola rivoliana	6.00	5	5.97	
Rhomboplites aurorubens	3.36	5	3.34	
Fistularia petimba	2.40	7	2.39	
Chaetodon guyanensis	1.68	38	1.67	
Lagocephalus laevigatus	1.32	2	1.31	
Synodus intermedius	1.32	22	1.31	
Ostichthys trachypoma	1.20	5	1.19	
Synodus poeyi	1.20	50	1.19	
Scorpaena plumieri	0.48	2	0.48	
Fistularia tabacaria	0.24	10	0.24	
Paranthias furcifer	0.00	5		
Total	100.56		100.00	

PROJECT STATION: 474
 DATE: 1/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6426
 TIME : 17:43 start stop duration 30 (min) Purpose code: 3
 LOG : 2100.50 2101.10 0.60 Area code : 3
 FDEPTH: 26 26 GearCond.code: 3
 BDEPTH: 26 26 Validity code:
 Towing dir: 255° Wire out: 150 m Speed: 20 kn*10
 Sorted: 34 Kg Total catch: 137.40 CATCH/HOUR: 274.80

PROJECT STATION: 478
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1140 Long W 6424
 TIME : 10:55 start stop duration 25 (min) Purpose code: 3
 LOG : 2245.00 2245.00 Area code : 3
 FDEPTH: 58 60 GearCond.code: 3
 BDEPTH: 58 60 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: kn*10
 Sorted: 81 Kg Total catch: 80.85 CATCH/HOUR: 194.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	77.60	2032	28.24	349
Upeneus parvus	40.00	1856	14.56	350
Sardinella aurita	29.60	376	10.77	351
Diplectrum bivittatum	20.80	184	7.57	
Haemulon steindachneri	16.00	88	5.82	
Trachurus lathami	13.20	776	4.80	352
Synodus poeyi	12.00	704	4.37	
Diplectrum formosum	9.20	120	3.35	
Sphyræna picudilla	6.40	72	2.33	
Sarda sarda	5.60	24	2.04	
Synodus foetens	5.60	40	2.04	
Scorpaena brasiliensis	4.00	16	1.75	
Decapterus macarellus	4.40	144	1.60	
Priacanthus arenatus	4.40	96	1.60	
OCTOPODIDAE	4.00	8	1.46	
Chloroscobrus chrysurus	4.00	16	1.46	
Dactylopterus volitans	4.00	8	1.46	
Lutjanus analis	2.40	24	0.87	
Epinephelus flavolimbatus	2.40	8	0.87	
Euthynnus alletteratus	2.40	8	0.87	
LABRIDAE	1.60	8	0.58	
Bothus lunatus	1.60	24	0.58	
Aloctia ciliaris	1.60	16	0.58	
Haemulon aurolineatum	1.20	8	0.44	
Pristipomoides macrophthalmus	0.00	8		
Total	274.80		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dactylopterus volitans	85.20	130	43.91	
Priacanthus arenatus	33.60	3936	17.32	
Acanthostracion quadricornis	31.20	103	16.08	
Elastes vetula	12.00	5	6.18	
Haemulon boschmae	6.00	1752	3.09	
Diodon sp.	5.04	14	2.60	
Haemulon aurolineatum	4.80	264	2.47	
Caulolatilus chrysops	2.64	2	1.36	
Fistularia tabacaria	2.64	2	1.36	
Fistularia petimba	2.40	7	1.24	
Malacanthus plumieri	1.92	5	0.99	
Loligo pealei	1.20	24	0.62	
Lutjanus synagris	1.20	19	0.62	
Holacanthus ciliaris	0.96	2	0.49	
Lutjanus buccanella	0.72	26	0.37	
Paranthias sp.	0.60	41	0.31	
Chaetodon sedentarius	0.48	17	0.25	
Upeneus parvus	0.36	17	0.19	
Ogcocephalus vespertilio	0.36	2	0.19	
Pennaeus sp.	0.24	2	0.12	
Holocentrus sp.	0.24	2	0.12	
Hemipteronotus novaacula	0.12	2	0.06	
Nicholsina usta	0.12	7	0.06	
Total	194.04		100.00	

PROJECT STATION: 475
 DATE: 1/ 6/88 GEAR TYPE: PT No:2 POSITION: Lat N 1111 Long W 6420
 TIME : 20:00 start stop duration 23 (min) Purpose code: 1
 LOG : 2115.50 2116.70 1.20 Area code : 3
 FDEPTH: 15 15 GearCond.code: 3
 BDEPTH: 45 47 Validity code:
 Towing dir: 300° Wire out: 150 m Speed: 35 kn*10
 Sorted: 36 Kg Total catch: 397.70 CATCH/HOUR: 1037.48

PROJECT STATION: 479
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1124 Long W 6418
 TIME : 13:34 start stop duration 30 (min) Purpose code: 3
 LOG : 2266.40 2266.40 Area code : 3
 FDEPTH: 70 76 GearCond.code: 3
 BDEPTH: 78 76 Validity code:
 Towing dir: 200° Wire out: 350 m Speed: kn*10
 Sorted: 28 Kg Total catch: 368.80 CATCH/HOUR: 737.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	889.57	18566	85.74	353
Etrumeus teres	60.26	3300	5.81	354
Scomber japonicus	57.39	545	5.53	355
Euthynnus alletteratus	18.65	86	1.80	
Selar crumenophthalmus	7.17	29	0.69	
Decapterus macarellus	4.30	115	0.41	
Total	1037.34		99.98	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	182.60	8108	24.76	
Trachurus lathami	138.60	5106	18.79	
Pristipomoides macrophthalmus	88.00	1650	11.93	
Rhomboplites aurorubens	77.00	72	10.44	
Haemulon boschmae	70.40	2398	9.54	
Epinephelus niveatus	47.80	2	6.48	
Haemulon melanurum	29.00	210	3.93	
Lutjanus analis	20.40	2	2.77	
Epinephelus flavolimbatus	18.90	4	2.56	
Ariomma melanum	15.40	616	2.09	
Synodus poeyi	11.00	88	1.49	
Lagocephalus laevigatus	11.00	44	1.49	
Loligo pealei	9.90	132	1.34	
Caulolatilus cyanops	7.00	10	0.95	
Caulolatilus intermedius	4.40	4	0.60	
Aluterus monoceros	3.00	2	0.41	
Decapterus tabl	2.20	22	0.30	
Paralichthys tropicus	1.00	2	0.14	
Total	737.60		100.01	

PROJECT STATION: 480
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1117 Long W 6421
 start stop duration Purpose code: 3
 TIME : 14:54 15:24 30 (min) Area code : 3
 LOG : 2272.00 2272.80 0.80 GearCond.code: 3
 FDEPTH: 70 68 Validity code:
 BDEPTH: 70 68
 Towing dir: 225° Wire out: 300 m Speed: 15 kn*10
 Sorted: 36 Kg Total catch: 512.60 CATCH/HOUR: 1025.20

PROJECT STATION: 484
 DATE: 3/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6422
 start stop duration Purpose code: 3
 TIME : 04:15 04:45 30 (min) Area code : 3
 LOG : 2361.00 2362.00 1.00 GearCond.code: 3
 FDEPTH: 74 56 Validity code:
 BDEPTH: 74 56
 Towing dir: 90° Wire out: 350 m Speed: 25 kn*10
 Sorted: 32 Kg Total catch: 470.20 CATCH/HOUR: 940.40

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Pristipomoides macrophthalmus	403.20	8824	39.33
Trachurus lathami	347.20	1932	33.07
Loligo plei	98.00	812	9.56
Synodus poeyi	28.00	172	2.73
Caulolatilus chrysops	22.40	112	2.18
Scomber japonicus	22.00	120	1.95
Aluterus monoceros	19.60	28	1.91
Upeneus parvus	19.60	700	1.91
Priacanthus arenatus	18.20	420	1.70
Prionotus punctatus	14.00	280	1.37
Scorpaena agassizi	14.00	28	1.37
Dactylopterus volitans	14.00	28	1.37
Sardinella aurita	4.20	140	0.41
Scorpaena isthmensis	2.80	28	0.27
Selar crumenophthalmus	0.00	20	
Total	1025.20		100.01

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Trachurus lathami	143.00	1690	15.21
Microposonias furnieri	93.60	106	9.95
Ctenoscoela gracilicirrus	83.20	78	8.85
Mustelus canis	80.60	156	8.57
Microposonias furnieri	80.60	806	8.57
Haemulon steindachneri	75.40	754	8.02
Prionotus punctatus	70.20	338	7.46
Macrodontus	52.00	52	5.53
Synodus poeyi	44.20	2106	4.70
Orthopristis ruber	33.80	130	3.59
Pristipomoides macrophthalmus	33.80	1768	3.59
Stallifer sp	31.20	858	3.32
Upeneus parvus	20.80	910	2.21
Upeneus parvus	18.20	52	1.94
Trichurus lepturus	15.60	182	1.66
Serranus phoebe	13.00	130	1.38
Harengula sp	13.00	130	1.38
Haemulon auxilineatum	7.80	26	0.83
Panesus notialis	5.40	102	0.57
Diplectrum radiale	5.20	130	0.55
Eucinostomus argenteus	5.20	156	0.55
Dactylopterus volitans	5.20	26	0.55
Lepophidium sp	2.60	26	0.28
Scorpaena agassizi	2.60	26	0.28
Porichthys sp	2.60	78	0.28
Serranus dwageri	1.40	4	0.15
Panesus brasiliensis	0.20	26	0.02
Sardinella aurita	0.00	26	
Total	940.40		99.99

PROJECT STATION: 481
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1110 Long W 6430
 start stop duration Purpose code: 3
 TIME : 16:26 16:56 30 (min) Area code : 3
 LOG : 2281.30 2282.60 1.30 GearCond.code: 3
 FDEPTH: 48 52 Validity code:
 BDEPTH: 48 52
 Towing dir: 270° Wire out: 200 m Speed: 26 kn*10
 Sorted: 20 Kg Total catch: 369.10 CATCH/HOUR: 738.20

PROJECT STATION: 485
 DATE: 3/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1055 Long W 6416
 start stop duration Purpose code: 3
 TIME : 05:30 06:00 30 (min) Area code : 3
 LOG : 2366.30 2367.60 1.30 GearCond.code: 3
 FDEPTH: 16 24 Validity code:
 BDEPTH: 16 24
 Towing dir: 100° Wire out: 100 m Speed: 30 kn*10
 Sorted: 64 Kg Total catch: 2068.80 CATCH/HOUR: 4137.60

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Upeneus parvus	144.00	7680	19.51
Pristipomoides macrophthalmus	129.60	7100	17.56
Loligo plei	102.00	1632	13.82
Selar crumenophthalmus	76.00	2112	10.40
Loligo pealei	55.20	960	7.48
Trachurus lathami	52.80	3024	7.15
Scomber japonicus	38.40	720	5.20
Rhomboplites aurorubens	30.40	2104	5.20
Epinephelus flavolimbatus	31.20	24	4.23
Caulolatilus cyanops	14.40	24	1.95
Scorpaena agassizi	12.00	24	1.63
Synodus poeyi	9.60	288	1.30
Lutjanus purpuraceus	9.00	4	1.22
Sardinella aurita	7.20	144	0.98
Diplectrum radiale	4.80	96	0.65
Serranus phoebe	4.80	96	0.65
Priacanthus arenatus	3.00	8	0.41
Lagocephalus laevigatus	2.40	24	0.33
Panesus brasiliensis	1.60	24	0.22
Lutjanus synagris	1.00	2	0.14
Eucinostomus argenteus	0.00	48	
Priacanthus arenatus	0.00	144	
Total	738.20		100.03

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Cathorops spixii	1690.00	8320	40.04
Diapterus rhombeus	461.60	3446	11.16
Sphyraena picudilla	315.20	3510	7.62
Scomberomorus cavalla	308.80	910	7.46
Miscellaneous fish	295.00		7.15
Synodus foetens	159.20	976	3.85
Selene spixii	104.00	650	2.51
Trachurus lathami	81.20	260	1.96
Bairdiella sanctaeluciae	81.20	520	1.96
Haemulon steindachneri	78.00	1040	1.89
Priacanthus arenatus	78.00	1040	1.89
Lagocephalus laevigatus	78.00	326	1.89
Diplectrum formosum	71.60	326	1.73
Diplectrum bivittatum	65.00	1236	1.57
Orthopristis ruber	55.20	520	1.33
Sphyraena guachancho	48.00	66	1.18
Haemulon bonariense	39.00	66	0.94
Scorpaena brasiliensis	39.00	196	0.94
Serranus sp	22.00	130	0.55
Menticirrhus littoralis	19.60	66	0.47
Haemulon boschmae	19.60	910	0.47
Eucinostomus gula	13.00	326	0.31
Eucinostomus argenteus	13.00	780	0.31
Prionotus punctatus	0.00	66	
Bothus ocellatus	0.00	66	
Syacium gutteri	0.00	260	
Total	4137.60		99.98

PROJECT STATION: 482
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1114 Long W 6438
 start stop duration Purpose code: 3
 TIME : 17:50 18:10 20 (min) Area code : 3
 LOG : 2289.00 2289.60 0.60 GearCond.code: 3
 FDEPTH: 95 86 Validity code:
 BDEPTH: 95 86
 Towing dir: 240° Wire out: 450 m Speed: 20 kn*10
 Sorted: 31 Kg Total catch: 220.30 CATCH/HOUR: 660.90

PROJECT STATION: 486
 DATE: 3/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1043 Long W 6415
 start stop duration Purpose code: 3
 TIME : 07:50 08:20 30 (min) Area code : 3
 LOG : 2383.50 2383.50 GearCond.code: 3
 FDEPTH: 71 71 Validity code:
 BDEPTH: 71 71
 Towing dir: 290° Wire out: 350 m Speed: kn*10
 Sorted: 98 Kg Total catch: 791.00 CATCH/HOUR: 1583.60

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Pristipomoides macrophthalmus	342.30	3612	51.79
Upeneus parvus	81.90	2457	12.39
Mustelus canis	42.00	21	6.35
Caulolatilus cyanops	36.75	105	5.56
Fistularia petimba	28.35	42	4.28
Dactylopterus volitans	21.00	63	3.18
Ariomma bondi	18.90	924	2.86
Synodus poeyi	13.65	42	2.07
Epinephelus flavolimbatus	13.20	3	2.00
Loligo plei	10.50	273	1.59
Trachinotus myops	9.45	21	1.43
Trachurus lathami	8.40	42	1.27
Serranus phoebe	7.35	42	1.11
Narcine brasiliensis	6.30	21	0.95
Serranus dwageri	6.30	42	0.95
Syacium gutteri	4.20	42	0.64
Scorpaena plumieri	4.20	63	0.64
Myxeroperca interstitialis	3.00	3	0.45
Scomber japonicus	2.10	42	0.32
Prionotus punctatus	1.05	21	0.16
Sardinella aurita	0.00	21	
Etruscanus tures	0.00	21	
Chaetodon guyanensis	0.00	21	
Total	660.90		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
Ctenoscoela gracilicirrus	683.20	7408	43.14
Trichurus lepturus	260.00	3712	16.47
Microposonias furnieri	200.00	112	12.63
Peprilus paru	192.00	288	12.12
Trachurus lathami	54.40	256	3.44
Mustelus canis	36.00	32	2.32
Sphyraena guachancho	33.60	32	2.12
Aluterus monoceros	16.00	16	1.01
Orthopristis ruber	16.00	48	1.01
Sphyraena picudilla	13.60	48	0.86
Loligo sp	12.00	48	0.76
Myliobatis freminvillei	7.60	4	0.48
Upeneus parvus	6.40	64	0.40
Chirocentrodon bleakerianus	5.60	864	0.35
Prionotus punctatus	5.60	32	0.35
Paralichthys tropicus	5.50	4	0.35
Fistularia petimba	4.80	16	0.30
Synodus poeyi	4.80	112	0.30
Scorpaena brasiliensis	4.80	16	0.30
Diplectrum bivittatum	4.00	64	0.25
Pristipomoides macrophthalmus	3.20	80	0.20
Synodus intermedius	3.20	256	0.20
Epinephelus niveatus	3.20	16	0.20
Panesus brasiliensis	2.50	90	0.16
Prionotus punctatus	1.60	32	0.10
Sardinella aurita	0.80	16	0.05
Ancylometta quadrocclata	0.00	16	
Total	1583.60		99.97

PROJECT STATION: 483
 DATE: 2/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106 Long W 6442
 start stop duration Purpose code: 3
 TIME : 22:05 22:35 30 (min) Area code : 3
 LOG : 2316.30 2317.40 1.10 GearCond.code: 3
 FDEPTH: 96 95 Validity code:
 BDEPTH: 96 95
 Towing dir: 270° Wire out: 500 m Speed: 20 kn*10
 Sorted: 29 Kg Total catch: 234.50 CATCH/HOUR: 469.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Pristipomoides macrophthalmus	209.60	4492	44.69
Trachurus lathami	104.00	800	22.17
Rhomboplites aurorubens	56.00	448	11.94
Haemulon flavolineatum	24.00	48	5.12
Upeneus parvus	20.80	384	4.43
Parques sp	19.20	80	4.09
Priacanthus arenatus	7.20	32	1.54
Fistularia petimba	6.40	32	1.36
Ophidion holbrookii	4.80	192	1.02
Scorpaena plumieri	4.80	96	1.02
Synodus poeyi	3.20	16	0.68
Loligo plei	2.40	32	0.51
Scomber japonicus	1.60	16	0.34
Lagocephalus laevigatus	1.60	16	0.34
Haemulon striatum	1.60	48	0.34
Conger tripliceps	1.00	2	0.21
APOGONIDAE	0.80	64	0.17
Lepophidium sp	0.00	16	
Serranus phoebe	0.00	16	
Ariomma bondi	0.00	32	
Total	469.00		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
Ctenoscoela gracilicirrus	683.20	7408	43.14
Trichurus lepturus	260.00	3712	16.47
Microposonias furnieri	200.00	112	12.63
Peprilus paru	192.00	288	12.12
Trachurus lathami	54.40	256	3.44
Mustelus canis	36.00	32	2.32
Sphyraena guachancho	33.60	32	2.12
Aluterus monoceros	16.00	16	1.01
Orthopristis ruber	16.00	48	1.01
Sphyraena picudilla	13.60	48	0.86
Loligo sp	12.00	48	0.76
Myliobatis freminvillei	7.60	4	0.48
Upeneus parvus	6.40	64	0.40
Chirocentrodon bleakerianus	5.60	864	0.35
Prionotus punctatus	5.60	32	0.35
Paralichthys tropicus	5.50	4	0.35
Fistularia petimba	4.80	16	0.30
Synodus poeyi	4.80	112	0.30
Scorpaena brasiliensis	4.80	16	0.30
Diplectrum bivittatum	4.00	64	0.25
Pristipomoides macrophthalmus	3.20	80	0.20
Synodus intermedius	3.20	256	0.20
Epinephelus niveatus	3.20	16	0.20
Panesus brasiliensis	2.50	90	0.16
Prionotus punctatus	1.60	32	0.10
Sardinella aurita	0.80	16	0.05
Ancylometta quadrocclata	0.00	16	
Total	1583.60		99.97

PROJECT STATION: 407
 DATE: 3/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1033 Long W 6401
 TIME : 16:35 start stop duration Purpose code: 3
 LOG : 2417.50 2418.60 1.10 Area code : 3
 FDEPTH: 61 66 GearCond.code: 9
 BDEPTH: 61 66 Validity code: 9
 Towing dir: 114° Wire out: 200 m Speed: 20 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
N O C A T C H	0.00			
Total				

PROJECT STATION: 491
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1021 Long W 6436
 TIME : 05:46 start stop duration Purpose code: 3
 LOG : 2516.80 2517.80 1.00 Area code : 3
 FDEPTH: 126 96 GearCond.code: 9
 BDEPTH: 126 96 Validity code: 9
 Towing dir: 233° Wire out: 550 m Speed: 25 kn*10
 Sorted: 29 Kg Total catch: 550.50 CATCH/HOUR: 1101.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Bairdiella chrysoura	562.40	3572	51.00	379
Ctenoscoela gracilicirrus	119.70	1216	10.87	
Trichurus lepturus	95.00	418	8.63	
Loligo pealei	60.80	5472	5.52	
Synodus poeyi	53.20	11278	4.83	
Priacanthus arenatus	52.00	1330	4.72	
SCIARNIIDAE	41.80		3.80	
Trachurus lathami	38.00	1064	3.45	
Scorpaena brasiliensis	20.90	38	1.90	
Pristipomoides macrophthalmus	13.30	304	1.21	
Selar crumenophthalmus	11.40	152	1.04	
Upeneus parvus	7.60	304	0.69	
Microgogonias furnieri	6.00	12	0.54	
Serranus atrobranchus	5.70	190	0.52	
Squatina dumonil	5.00	2	0.45	
Prionotus stearnsi	3.80	190	0.35	
Paralichthys tropicus	2.20	4	0.20	
Penaeus subtilis	1.80	40	0.16	380
Penaeus brasiliensis	0.00	2		
Porichthys sp	0.00	228		
Total	1100.60		99.96	

PROJECT STATION: 488
 DATE: 3/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1030 Long W 6353
 TIME : 18:00 start stop duration Purpose code: 3
 LOG : 2424.90 2425.70 0.80 Area code : 3
 FDEPTH: 49 48 GearCond.code: 9
 BDEPTH: 49 48 Validity code: 9
 Towing dir: 106° Wire out: 200 m Speed: 20 kn*10
 Sorted: 60 Kg Total catch: 181.10 CATCH/HOUR: 434.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenoscoela gracilicirrus	198.00	4867	45.55	374
Microgogonias furnieri	149.40	288	34.37	375
Cathorops spixii	40.68	346	9.36	376
Rucinostomus argenteus	7.92	202	1.82	
Trachurus lathami	7.92	576	1.82	
Orthopristis ruber	6.04	79	1.57	
Loligo pealei	6.48	468	1.49	
Loligo plei	4.32	94	0.99	
Paralichthys tropicus	2.64	2	0.61	
Trichurus lepturus	2.52	101	0.58	
Fistularia petimba	2.16	7	0.50	
Serranus dewegeri	2.16	14	0.50	
Penaeus notialis	1.08	26	0.25	
Diplectrum bivittatum	1.08	7	0.25	
Etrumeus tores	0.72	130	0.17	
Chirocentrodon bleekeri	0.72	150	0.17	
Penaeus brasiliensis	0.00	2		
Total	434.64		100.00	

PROJECT STATION: 492
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1023 Long W 6450
 TIME : 08:00 start stop duration Purpose code: 3
 LOG : 2531.60 2533.30 1.70 Area code : 3
 FDEPTH: 81 80 GearCond.code: 9
 BDEPTH: 81 80 Validity code: 9
 Towing dir: 270° Wire out: 450 m Speed: 30 kn*10
 Sorted: 60 Kg Total catch: 112.26 CATCH/HOUR: 224.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	48.00	2236	21.38	382
Priacanthus arenatus	37.80	210	16.84	381
Mustelus canis	26.60	28	11.85	
Loligo pealei	13.50	580	6.01	383
Rhizoprionodon porosus	13.40	2	5.97	
Ariomma bondi	12.30	300	5.48	
Upeneus parvus	11.84	374	5.27	384
Aluterus monoceros	10.50	12	4.68	
Trichurus lepturus	9.60	10	4.28	
Sphyræna quachancho	7.50		3.34	
Rucinostomus argenteus	6.90	132	3.07	
Myliobatis freminvillei	5.00	2	2.23	
Trachurus lathami	3.00	42	1.34	
Balistes vetula	2.70	4	1.20	
Selene spixii	2.24	6	1.00	
Fistularia petimba	2.10	10	0.94	
Haemulon steindachneri	2.10	10	0.94	
Caulolatilus intermedius	1.80	6	0.80	
Acanthostracion quadricornis	1.50	4	0.67	
Saurida brasiliensis	1.50	268	0.67	
Fistularia tabacaria	1.34	30	0.60	
Saurida normani	1.20	10	0.53	
Upeneus parvus	0.90	6	0.40	
Prionotus carolinus	0.60	12	0.27	
Lagocephalus lasvigatus	0.30	6	0.13	
Ancylorsetta dilecta	0.30	4	0.13	
Sardinella aurita	0.00	4		
Total	224.52		100.02	

PROJECT STATION: 409
 DATE: 3/ 6/88 GEAR TYPE: FT No:4 POSITION: Lat N 1031 Long W 6400
 TIME : 21:00 start stop duration Purpose code: 1
 LOG : 2440.30 2449.00 1.50 Area code : 3
 FDEPTH: 0 0 GearCond.code: 9
 BDEPTH: 63 58 Validity code: 9
 Towing dir: 240° Wire out: 50 m Speed: 30 kn*10
 Sorted: 0 Kg Total catch: 52.20 CATCH/HOUR: 104.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	70.20	2172	67.24	377
Etrumeus tores	29.80	2260	28.54	378
Trichurus lepturus	4.40	2	4.21	
Total	104.40		99.99	

PROJECT STATION: 490
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1025 Long W 6435
 TIME : 04:24 start stop duration Purpose code: 3
 LOG : 2511.30 2512.00 0.70 Area code : 3
 FDEPTH: 154 143 GearCond.code: 9
 BDEPTH: 154 143 Validity code: 9
 Towing dir: 76° Wire out: 650 m Speed: 15 kn*10
 Sorted: 27 Kg Total catch: 429.60 CATCH/HOUR: 859.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sciaena bathytatos	400.00	1600	46.55	
PERCIFORMIDAE	96.00	1152	11.17	
Trichurus lepturus	80.00	768	9.31	
Steindachneria argenta	48.00	3040	5.59	
S H R I M P S	48.00		5.59	
Pristipomoides macrophthalmus	43.20	416	5.03	
Loligo plei	41.60	832	4.84	
Trachurus lathami	28.80	128	3.35	
Loligo pealei	24.00	768	2.79	
Stellifer rastrifer	12.00	160	1.49	
Synodus poeyi	12.80	928	1.49	
Ancylorsetta dilecta	9.60	32	1.12	
Fistularia petimba	4.80	32	0.56	
Hoplunnis diomedianus	3.20	192	0.37	
Lepophidium sp	3.20	64	0.37	
Penaeus notialis	1.60	64	0.19	
Porichthys sp	1.60	64	0.19	
Trichopsetta ventralis	0.00	64		
Penaeus brasiliensis	0.00	32		
Prionotus stearnsi	0.00	64		
ANTENNARIIDAE	0.00	32		
Total	859.20		100.00	

PROJECT STATION: 493
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1012 Long W 6449
 TIME : 09:55 start stop duration Purpose code: 3
 LOG : 2545.60 2547.00 1.40 Area code : 3
 FDEPTH: 40 41 GearCond.code: 9
 BDEPTH: 40 41 Validity code: 9
 Towing dir: 283° Wire out: 200 m Speed: 20 kn*10
 Sorted: 78 Kg Total catch: 3000.00 CATCH/HOUR: 5142.86

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	4532.40	570943	88.13	385
Anchoa mitchilli	549.43	127215	10.68	386
Selene vomer	10.29	10	0.20	
Oligoplites saliens	9.26	7	0.18	
Microgogonias furnieri	0.23	7	0.16	
Sphyræna quachancho	7.20	14	0.14	
Trichurus lepturus	6.86	14	0.13	
Chloroscombrus chrysurus	4.00	34	0.09	
Bagre marinus	4.46	3	0.09	
Priacanthus arenatus	4.11	7	0.08	
Hemicaranx amblyrhynchus	3.43	14	0.07	
Sphyræna plicidilla	2.40	10	0.05	
Total	5142.87		100.00	

PROJECT STATION: 494
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1015 Long W 6500
 TIME : 11:05 start stop duration Purpose code: 3
 LOG : 2555.00 2556.30 1.30 Area code : 3
 FDEPTH: 43 43 GearCond.code: 9
 BDEPTH: 43 43 Validity code: 9
 Towing dir: 280° Wire out: 250 m Speed: 25 kn*10
 Sorted: 28 Kg Total catch: 43.04 CATCH/HOUR: 86.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	25.20	1898	29.28	
Anchoa lyolepis	16.50	1014	19.17	387
Synodus poeyi	9.60	442	11.15	
Pecten sp	8.70	366	10.11	
Sardinella aurita	7.00	120	9.06	388
Loligo plei	6.90	100	8.02	
Loligo pealei	2.70	64	3.14	
Upeneus parvus	2.40	108	2.79	
Priacanthus arenatus	2.10	166	2.44	
Penaeus notialis	1.20	6	1.39	
Selar crumenophthalmus	0.90	4	1.05	
Trachurus lathami	0.74	10	0.86	
Diplectrum bivittatum	0.60	6	0.70	
Fistularia petimba	0.30	10	0.35	
Diplectrum radiale	0.30	24	0.35	
Serranus phoebe	0.14	12	0.16	
Total	86.08		100.02	

PROJECT STATION: 495
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1025 Long W 6501
 TIME : 13:20 13:50 30 (min) Purpose code: 3
 LOG : 2566.40 2567.40 1.00 Area code : 3
 FDEPTH: 78 78 GearCond.code: 3
 BDEPTH: 78 78 Validity code:
 Towing dir: 272° Wire out: 350 m Speed: 20 kn*10

Sorted: 27 Kg Total catch: 81.66 CATCH/HOUR: 163.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	30.00	1360	18.37	
Upeneus parvus	29.70	1404	18.19	
Eucinostomus argenteus	14.40	250	8.82	
Trachurus lathami	12.00	438	7.35	389
Mustelus canis	11.40	18	6.98	
Aluterus monoceros	10.32	6	6.32	
Ariomma bondi	9.60	282	5.88	390
Priacanthus arenatus	9.00	300	5.51	
Loligo plei	7.20	312	4.41	
Fistularia petimba	7.20	90	4.41	
Balistes capricornis	6.60	6	4.04	
Loligo pealei	4.80	192	2.94	
Sphyræna picudilla	4.20	6	2.57	
Synodus poeyi	4.20	24	2.57	
Salar crumenophthalmus	1.50	6	0.92	
Dactylopterus volitans	1.20	12	0.73	
Prionotus stearnsi	0.00	12		
Total		163.32	100.01	

PROJECT STATION: 56
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1102 Long W 6451
 TIME : 08:20 08:45 25 (min) Purpose code: 3
 LOG : 2711.80 2712.30 0.50 Area code : 3
 FDEPTH: 94 104 GearCond.code:
 BDEPTH: 94 104 Validity code:
 Towing dir: 270° Wire out: 550 m Speed: 2 kn*10

Sorted: 38 Kg Total catch: 37.85 CATCH/HOUR: 90.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon striatum	48.60	509	53.50	396
Mycteroperca cidi	12.48	2	13.74	
Rhomboplites aurorubens	5.04	17	5.55	
Caulolatilus chrysopt	3.96	2	4.36	
Haemulon flavolineatum	3.84	12	4.23	
Aluterus monoceros	3.48	2	3.83	
Lutjanus buccanella	3.36	5	3.70	
Calamus bajonado	3.24	2	3.57	
Loligo pealei	1.92	2	2.11	
Loligo plei	1.44	50	1.59	
Pristipomoides macrophthalmus	0.96	12	1.06	
Caulolatilus cyanops	0.60	2	0.66	
Chronis sp.	0.48	10	0.53	
Synodus poeyi	0.48	2	0.53	
Scorpaena plumieri	0.36	2	0.40	
Upeneus parvus	0.36	31	0.40	
Ariomma bondi	0.24	14	0.26	
Canthigaster rostrata	0.00	2		
Apogon pseudomaculatus	0.00	2		
Total		90.84	100.02	

PROJECT STATION: 496
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1025 Long W 6513
 TIME : 15:10 15:40 30 (min) Purpose code: 3
 LOG : 2577.00 2579.00 1.20 Area code : 3
 FDEPTH: 82 79 GearCond.code: 3
 BDEPTH: 82 79 Validity code:
 Towing dir: 183° Wire out: 400 m Speed: 20 kn*10

Sorted: 30 Kg Total catch: 150.70 CATCH/HOUR: 301.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	131.00	2358	43.46	391
Sphyræna guachancho	45.00	80	14.93	
Priacanthus arenatus	35.00	300	11.61	
Trachurus lathami	30.00	390	9.95	392
Upeneus parvus	25.00	670	8.29	
Synodus poeyi	10.00	40	3.32	
Eucinostomus argenteus	10.00	140	3.32	
Calamus nodosus	6.00	19	1.99	
Salar crumenophthalmus	5.00	50	1.66	
Fistularia petimba	3.00	50	1.00	
Diplecetrum bivittatum	0.50	30	0.17	
Prionotus carolinus	0.50	10	0.17	
Penaeus brasiliensis	0.40	4	0.13	
Prionotus stearnsi	0.00	20		
Total		301.40	100.00	

PROJECT STATION: 5
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 105 Long W 650
 TIME : 11:00 11:30 30 (min) Purpose code: 3
 LOG : 2733.20 2734.20 1.00 Area code : 3
 FDEPTH: 130 125 GearCond.code:
 BDEPTH: 130 125 Validity code:
 Towing dir: 260° Wire out: 650 m Speed: 25 kn*10

Sorted: 66 Kg Total catch: 198.84 CATCH/HOUR: 397.68

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	274.00	2574	69.10	393
Pristipomoides macrophthalmus	96.00	904	24.14	394
Pagrus pagrus	17.40	30	4.30	
Caulolatilus cyanops	3.60	6	0.91	
Priacanthus arenatus	3.00	30	0.75	
Rhomboplites aurorubens	1.50	6	0.30	
Loligo pealei	0.90	36	0.23	
Serranus dewegeri	0.48	6	0.12	
Total		397.68	100.01	

PROJECT STATION: 497
 DATE: 4/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1017 Long W 6512
 TIME : 16:32 17:02 30 (min) Purpose code: 3
 LOG : 2585.00 2585.90 0.90 Area code : 3
 FDEPTH: 47 48 GearCond.code: 8
 BDEPTH: 47 48 Validity code: 9
 Towing dir: 270° Wire out: 200 m Speed: 20 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
N O C A T C H	0.00			
Total				

PROJECT STATION: 502
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1002 Long W 6500
 TIME : 12:34 13:09 35 (min) Purpose code: 3
 LOG : 2741.70 2742.10 0.40 Area code : 3
 FDEPTH: 80 75 GearCond.code:
 BDEPTH: 80 75 Validity code:
 Towing dir: 316° Wire out: 400 m Speed: 8 kn*10

Sorted: 59 Kg Total catch: 88.95 CATCH/HOUR: 152.49

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	83.31	482	54.63	398
Upeneus parvus	27.51	722	18.04	399
Scomber japonicus	15.43	183	10.12	400
Rhomboplites aurorubens	9.00	75	5.90	401
Aluterus monoceros	4.37	3	2.87	
Loligo plei	4.37	98	2.87	
Priacanthus arenatus	3.09	19	2.03	
Pristipomoides macrophthalmus	2.57	29	1.69	
Loligo pealei	2.31	29	1.51	
Sardinella aurita	0.51	9	0.33	
Total		152.47	99.99	

PROJECT STATION: 498
 DATE: 5/ 6/88 GEAR TYPE: PT No:2 POSITION: Lat N 1100 Long W 6431
 TIME : 04:55 05:17 22 (min) Purpose code: 1
 LOG : 2691.50 2692.50 1.00 Area code : 3
 FDEPTH: 60 70 GearCond.code: 3
 BDEPTH: 315 325 Validity code: 4
 Towing dir: 119° Wire out: 225 m Speed: 30 kn*10

Sorted: 1 Kg Total catch: 1.45 CATCH/HOUR: 3.95

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	3.55		89.87	393
Trachurus lathami	0.41	3	10.38	
Total		3.96	100.25	

PROJECT STATION: 503
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6505
 TIME : 14:35 15:05 30 (min) Purpose code: 3
 LOG : 2753.00 2754.00 1.00 Area code : 3
 FDEPTH: 94 90 GearCond.code:
 BDEPTH: 94 90 Validity code:
 Towing dir: 238° Wire out: 450 m Speed: 20 kn*10

Sorted: 11 Kg Total catch: 11.45 CATCH/HOUR: 22.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Aluterus monoceros	9.00	4	39.30	
Loligo plei	7.00	172	30.57	402
Ariomma bondi	2.00	70	8.73	
Upeneus parvus	1.40	58	6.11	
Serranus flaviventris	1.00	6	4.37	
Loligo pealei	0.80	14	3.49	
Fistularia petimba	0.60	2	2.62	
Decapterus tahi	0.60	4	2.62	
Pristipomoides macrophthalmus	0.50	2	2.18	
Total		22.90	99.99	

PROJECT STATION: 499
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1103 Long W 6434
 TIME : 06:15 06:45 30 (min) Purpose code: 3
 LOG : 2698.30 2699.00 0.70 Area code : 3
 FDEPTH: 99 95 GearCond.code:
 BDEPTH: 99 95 Validity code:
 Towing dir: 270° Wire out: 550 m Speed: 15 kn*10

Sorted: 53 Kg Total catch: 217.90 CATCH/HOUR: 435.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	184.80	1016	42.40	394
Pristipomoides macrophthalmus	121.80	1086	27.95	395
Mycteroperca cidi	36.40	2	8.35	
Rhomboplites aurorubens	23.40	70	5.37	
Calamus bajonado	21.00	4	4.82	
Loligo plei	9.40	792	2.16	
Trichiurus lepturus	8.40	8	1.93	
Aluterus monoceros	6.60	8	1.51	
Caulolatilus chrysopt	5.20	8	1.19	
Haemulon flavolineatum	4.20	8	0.96	
Upeneus parvus	3.20	56	0.73	
Paralichthys tropicus	3.00	4	0.69	
Priacanthus arenatus	2.40	8	0.55	
Loligo pealei	1.80	22	0.41	
Fistularia petimba	1.80	14	0.41	
Pagrus pagrus	1.70	2	0.39	
Salar crumenophthalmus	0.70	8	0.16	
Etrumeus tares	0.00	8		
Total		435.80	99.98	

PROJECT STATION: 504
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1101 Long W 6514
 start stop duration
 TIME : 16:20 16:50 30 (min) Purpose code: 3
 LOG : 2764.50 2766.00 1.50 Area code : 3
 FDEPTH: 30 35 GearCond.code: 1
 BDEPTH: 30 35 Validity code: 1
 Towing dir: 290° Wire out: 150 m Speed: 30 kn*10

Sorted: 411 Kg Total catch: 411.33 CATCH/HOUR: 822.66

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Ocyurus chrysurus	355.20	390	43.10
Calamus pennatula	141.00	290	17.14
Priacanthus arenatus	74.50	110	9.07
Balistes vetula	68.00	40	8.27
Lachnolaimus maximus	54.60	36	6.64
Pomacanthus paru	21.30	12	2.59
ACANTHURIDAE	19.30	32	2.35
Lutjanus griseus	10.70	6	2.27
Acanthostracion quadricornis	17.50	16	2.13
Rhizophronodon porosus	12.40	2	1.51
Aluterus scripta	6.80	2	0.83
Haemulon plumieri	4.40	8	0.53
Fistularia tabacaria	4.00	4	0.49
Acanthurus chirurgus	3.60	6	0.44
Aluterus monoceros	3.40	2	0.41
Epinephelus guttatus	3.00	4	0.36
Sparisoma sp.	3.00	6	0.36
Pomacanthus arcuatus	3.00	2	0.36
Pseudupeneus maculatus	2.80	38	0.34
Pseudupeneus maculatus	2.60	8	0.32
Fistularia petimba	2.00	2	0.24
Myctoperca cidi	2.00	10	0.24
Aulostomus maculatus	1.00	10	0.12
Decapterus punctatus	0.40	6	0.05
Decapterus tabl	0.30	4	0.04
Sardinella aurita	0.10	2	0.01
Total	823.00		100.05

PROJECT STATION: 505
 DATE: 5/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6525
 start stop duration
 TIME : 18:00 18:30 30 (min) Purpose code: 3
 LOG : 2774.60 2775.90 1.30 Area code : 3
 FDEPTH: 70 72 GearCond.code: 1
 BDEPTH: 70 72 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 20 kn*10

Sorted: 26 Kg Total catch: 232.30 CATCH/HOUR: 464.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Haemulon boschmae	155.20	7824	33.41
Rhomboplites aurorubens	123.20	3984	26.52
Trachurus lathami	80.00	4900	17.22
Haemulon flavolineatum	40.00	928	8.61
Decapterus macarellus	20.00	384	4.30
Lutjanus griseus	19.20	2	4.13
Stenotomus chrysops	13.60	2	2.93
Lutjanus purpureus	6.80	2	1.46
Loligo plei	2.40	82	0.52
Decapterus tabl	2.40	32	0.52
Fistularia petimba	1.80	4	0.39
Total	464.60		100.01

PROJECT STATION: 506
 DATE: 6/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6545
 start stop duration
 TIME : 12:22 12:52 30 (min) Purpose code: 3
 LOG : 2948.30 2949.80 1.50 Area code : 3
 FDEPTH: 82 67 GearCond.code: 1
 BDEPTH: 82 67 Validity code: 1
 Towing dir: 205° Wire out: 400 m Speed: 30 kn*10

Sorted: 4 Kg Total catch: 4.50 CATCH/HOUR: 9.16

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Calamus pennatula	2.46	6	26.06
Caulolatilus intermedius	1.40	2	15.28
Fistularia tabacaria	1.40	2	15.28
Synodus sp	1.00	16	10.92
Serranus phoebe	1.00	18	10.92
Loligo plei	0.80	14	8.73
Fistularia petimba	0.60	6	6.55
Acanthostracion quadricornis	0.30	2	3.28
Trachinocephalus myops	0.20	2	2.18
Total	9.16		100.00

PROJECT STATION: 507
 DATE: 6/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6549
 start stop duration
 TIME : 14:15 14:28 13 (min) Purpose code: 3
 LOG : 2959.70 2960.30 0.60 Area code : 3
 FDEPTH: 72 82 GearCond.code: 5
 BDEPTH: 72 82 Validity code: 1
 Towing dir: 320° Wire out: 350 m Speed: 27 kn*10

Sorted: 31 Kg Total catch: 30.85 CATCH/HOUR: 142.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Haemulon chrysargyreum	135.23	2137	94.98
Loligo plei	2.31	18	1.62
Chromis sp.	2.00	32	1.46
Fistularia petimba	1.38	5	0.97
Serranus phoebe	1.38	18	0.97
Synodus poeyi	0.00	5	
Prionotus sp	0.00	5	
Total	142.38		100.00

PROJECT STATION: 508
 DATE: 6/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1058 Long W 6553
 start stop duration
 TIME : 15:07 15:37 30 (min) Purpose code: 3
 LOG : 2964.70 2966.00 1.30 Area code : 3
 FDEPTH: 72 72 GearCond.code: 1
 BDEPTH: 72 72 Validity code: 1
 Towing dir: 300° Wire out: 350 m Speed: 25 kn*10

Sorted: 19 Kg Total catch: 19.00 CATCH/HOUR: 38.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	15.60	2	41.05
Balistes vetula	5.60	2	14.74
Rhomboplites aurorubens	5.60	124	14.74
Haemulon chrysargyreum	3.40	54	8.95
Loligo plei	2.00	40	5.26
Pagrus pagrus	1.80	2	4.74
Synodus poeyi	1.20	12	3.16
Loligo pealei	0.60	10	2.11
Fistularia petimba	0.60	6	1.58
Chromis sp.	0.60	10	1.58
Dactylopterus volitans	0.40	2	1.05
Haemulon boschmae	0.40	10	1.05
Total	38.00		100.01

PROJECT STATION: 509
 DATE: 6/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1044 Long W 6604
 start stop duration
 TIME : 17:53 18:23 30 (min) Purpose code: 3
 LOG : 2987.20 2988.00 0.80 Area code : 3
 FDEPTH: 63 63 GearCond.code: 1
 BDEPTH: 63 63 Validity code: 1
 Towing dir: 42° Wire out: 300 m Speed: 15 kn*10

Sorted: 74 Kg Total catch: 74.35 CATCH/HOUR: 148.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus apodus	102.40	30	68.86
Mustelus sp	14.00	6	9.95
Pagrus pagrus	7.60	10	5.11
Aluterus monoceros	6.80	4	4.57
Balistes vetula	5.40	2	3.63
Loligo plei	5.00	38	3.36
Acanthostracion quadricornis	4.80	4	3.23
Fistularia petimba	1.00	4	0.67
Chilomycterus antillarum	0.60	2	0.40
Lutjanus synagris	0.30	2	0.20
Total	148.70		99.98

PROJECT STATION: 510
 DATE: 6/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1045 Long W 6619
 start stop duration
 TIME : 21:57 22:27 30 (min) Purpose code: 3
 LOG : 3017.70 3019.20 1.50 Area code : 3
 FDEPTH: 182 184 GearCond.code: 1
 BDEPTH: 182 184 Validity code: 1
 Towing dir: 260° Wire out: 700 m Speed: 30 kn*10

Sorted: 47 Kg Total catch: 94.80 CATCH/HOUR: 189.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Priatipomoides macrophthalimus	138.00	1624	72.78
Prionotus beani	13.60	196	7.17
Trachurus lathami	10.00	40	5.27
Aluterus monoceros	6.40	4	3.38
Upeneus parvus	3.60	80	1.90
Peristodion sp	3.60	120	1.90
Lepopidium profundorum	2.80	60	1.48
Saurida caribbaea	2.40	16	1.27
Loligo plei	2.00	28	1.05
Brotula barbata	2.00	4	1.05
Antennarius radiosus	1.20	4	0.63
Pontinus longispinis	0.80	20	0.42
Trichopsetta ventralis	0.80	20	0.42
Decodon puellaris	0.60	8	0.32
Scorpaena agassizi	0.40	20	0.21
Pseudupeneus maculatus	0.40	4	0.21
Sphaeroides pachygaster	0.40	8	0.21
Porichthys bathoiketes	0.40	8	0.21
Synchiropus agassizii	0.20	4	0.11
MORIDAE	0.00	20	
Hildebrandia sp.	0.00	4	
Hoplunnis sp	0.00	16	
Serranus atrobranchus	0.00	4	
Total	189.60		99.99

PROJECT STATION: 511
 DATE: 7/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1034 Long W 6657
 start stop duration
 TIME : 06:30 07:00 30 (min) Purpose code: 3
 LOG : 3096.50 3097.80 1.30 Area code : 3
 FDEPTH: 154 151 GearCond.code: 1
 BDEPTH: 154 151 Validity code: 1
 Towing dir: 260° Wire out: 650 m Speed: 25 kn*10

Sorted: 47 Kg Total catch: 305.70 CATCH/HOUR: 611.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichiurus lepturus	426.00	468	69.60
Rhomboplites aurorubens	58.80	420	9.62
Myliobatis freminvillei	40.00	10	6.54
Hemanthias leptus	33.60	72	5.50
Priatipomoides macrophthalimus	28.80	204	4.71
Hexanchus griseus	8.00	2	1.31
Fistularia petimba	4.80	24	0.79
Upeneus parvus	4.80	72	0.79
Paralichthys tropicus	3.00	2	0.49
Loligo pealei	2.40	72	0.39
Trachurus lathami	1.20	12	0.20
Fenaeus brasiliensis	0.00	12	
Total	611.40		100.02

PROJECT STATION: 512
 DATE: 8/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1038 Long W 6648
 start stop duration Purpose code: 3
 TIME : 08:53 09:17 24 (min) Area code : 3
 LOG : 3114.20 3115.30 1.10 GearCond.code: 3
 FDEPTH: 69 63 Validity code:
 DDEPTH: 69 63
 Towing dir: 95° Wire out: 350 m Speed: 20 kn*10
 Sorted: 67 Kg Total catch: 67.10 CATCH/HOUR: 167.75

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lutjanus purpureus	127.00	375	414
Myliobatis freminvillei	7.50	8	
Priacanthus arenatus	7.30	15	
Lutjanus synagris	6.25	5	
Seriola rivoliana	6.25	3	
Loligo plei	3.75	210	
Pristipomoides macrophthalma	2.50	20	
Albulina nemoptera	1.63	3	
Rhomboplites aurorubens	1.50	23	
Pistularia petimba	1.50	3	
Eucinostomus argenteus	1.25	30	
Priacanthus punctatus	0.75	3	
Upeneus parvus	0.50	23	
Synodus poeyi	0.00	5	
Total	167.76	100.02	

PROJECT STATION: 513
 DATE: 8/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6632
 start stop duration Purpose code: 3
 TIME : 12:05 12:35 30 (min) Area code : 3
 LOG : 3130.90 3132.40 1.50 GearCond.code: 3
 FDEPTH: 67 63 Validity code:
 DDEPTH: 67 63
 Towing dir: 275° Wire out: 350 m Speed: 30 kn*10
 Sorted: 26 Kg Total catch: 26.05 CATCH/HOUR: 52.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trachurus lathami	21.00	1996	415
Priacanthus arenatus	8.40	24	
Upeneus parvus	3.40	520	
Rhomboplites aurorubens	2.00	62	416
Lagocephalus luevigatus	2.00	4	
Decapterus macarellus	2.00	64	
Lutjanus purpureus	1.90	6	
Loligo plei	1.80	50	
Seriola rivoliana	1.60	2	
Priacanthus punctatus	1.60	2	
Pristipomoides macrophthalma	1.40	12	
Pistularia petimba	1.20	6	
Alectis ciliaris	1.00	2	
Baetis sp.	1.00	22	
Sardinella aurita	1.00	26	
Diplacrum bivittatum	0.00	4	
Synodus poeyi	0.00	6	
Total	52.10	100.00	

PROJECT STATION: 514
 DATE: 8/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6617
 start stop duration Purpose code: 3
 TIME : 14:49 15:19 30 (min) Area code : 3
 LOG : 3152.50 3153.90 1.40 GearCond.code: 3
 FDEPTH: 91 95 Validity code:
 DDEPTH: 91 95
 Towing dir: 270° Wire out: 400 m Speed: 28 kn*10
 Sorted: 34 Kg Total catch: 33.90 CATCH/HOUR: 67.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Selar crumenophthalmus	35.00	426	417
Upeneus parvus	8.60	356	
Eucinostomus argenteus	8.00	176	
Loligo plei	4.40	80	418
Pristipomoides macrophthalma	4.00	44	
Aluterus monoceros	2.60	2	
Ariomma bondi	1.00	40	
Cyclopesia chittendeni	1.60	2	
Trachurus lathami	0.80	2	
Rhomboplites aurorubens	0.40	4	
Scomber japonicus	0.40	2	
Priacanthus arenatus	0.20	4	
Total	67.80	99.98	

PROJECT STATION: 515
 DATE: 8/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1039 Long W 6604
 start stop duration Purpose code: 3
 TIME : 17:20 17:45 25 (min) Area code : 3
 LOG : 3169.90 3171.70 1.80 GearCond.code: 3
 FDEPTH: 70 64 Validity code:
 DDEPTH: 70 64
 Towing dir: 278° Wire out: 350 m Speed: 36 kn*10
 Sorted: 22 Kg Total catch: 22.60 CATCH/HOUR: 54.24

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Eucinostomus argenteus	16.80	343	419
Upeneus parvus	7.68	216	420
Priacanthus arenatus	6.48	17	
Dactylopterus volitans	6.00	12	
Pistularia petimba	3.84	24	
Pristipomoides macrophthalma	3.60	36	
Acanthostracion quadricornis	2.64	5	
Calamus penna	2.40	2	
Loligo plei	1.20	46	
Loligo plei	1.20	29	
Acanthostracion polygonus	0.96	2	
Selar crumenophthalmus	0.60	7	
Rhomboplites aurorubens	0.48	10	
Trachurus lathami	0.24	10	
Ariomma bondi	0.12	12	
Synodus poeyi	0.00	2	
Total	54.24	99.99	

PROJECT STATION: 516
 DATE: 8/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6612
 start stop duration Purpose code: 3
 TIME : 19:30 20:00 30 (min) Area code : 3
 LOG : 3187.70 3189.20 1.50 GearCond.code: 3
 FDEPTH: 214 215 Validity code:
 DDEPTH: 214 215
 Towing dir: 270° Wire out: 900 m Speed: 30 kn*10
 Sorted: 23 Kg Total catch: 72.70 CATCH/HOUR: 145.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Pristipomoides macrophthalma	59.40	468	422
Pontinus longispinis	30.00	600	20.63
Trachurus lathami	16.80	60	11.55
Priacanthus beani	13.80	204	9.49
Solenocera sp	5.60	366	3.85
Saurida normani	4.20	24	2.89
Loligo plei	3.60	30	2.48
Brotula barbata	2.40	6	1.65
Lepophidium profundorum	2.10	24	1.44
Sciaenidae bathytatos	1.80	6	1.24
Hoplunnis sp	1.00	168	1.24
Trichopsetta ventralis	1.20	18	0.83
Shrimps, small, non comm.	1.00	0	0.69
Bembrops sp	0.60	6	0.41
Nealotus tripes	0.60	12	0.41
Peristedion miniatum	0.30	6	0.21
Pikea mexicana	0.20	20	0.14
Priacanthus stearnsi	0.00	6	
MORIDAE	0.00	168	
Peristedion sp	0.00	18	
Upeneus parvus	0.00	6	
Merluccius albidus	0.00	18	
Hemanthias leptus	0.00	6	
Ogcocephalus notatus	0.00	14	
Zenopopsis ocellata	0.00	4	
Total	145.40	100.00	

PROJECT STATION: 517
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6654
 start stop duration Purpose code: 3
 TIME : 00:32 01:02 30 (min) Area code : 3
 LOG : 3235.10 3237.20 2.10 GearCond.code: 3
 FDEPTH: 103 98 Validity code:
 DDEPTH: 103 98
 Towing dir: 243° Wire out: 500 m Speed: 35 kn*10
 Sorted: 28 Kg Total catch: 449.20 CATCH/HOUR: 898.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Rhomboplites aurorubens	400.00	736	44.52
Dasyatis sp	240.00	2	26.71
Lutjanus vivanus	55.00	6	6.37
Myxocerpon cidi	57.00	2	6.34
Decapterus tabl	49.60	396	5.82
Seriola rivoliana	32.00	4	3.56
Priacanthus arenatus	22.00	20	2.45
Ariomma bondi	15.20	272	1.69
Myripristis jacobus	8.00	44	0.89
Pristigenys alta	6.00	12	0.67
Dactylopterus volitans	2.80	4	0.31
Seranus phoebe	1.60	24	0.18
Pistularia petimba	1.20	4	0.13
Scorpaena agassizi	1.20	12	0.13
Priacanthus stearnsi	0.80	4	0.09
Pontinus longispinis	0.80	4	0.09
Hoplunnis sp	0.60	8	0.07
Pronotogrammus eos	0.40	16	0.04
Apogon pseudomaculatus	0.20	4	0.02
Xenolepidichthys dalgleishi	0.00	4	
Lepophidium profundorum	0.00	4	
Chaetodon guyanensis	0.00	8	
Total	898.40	99.98	

PROJECT STATION: 518
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6750
 start stop duration Purpose code: 3
 TIME : 08:15 08:45 30 (min) Area code : 3
 LOG : 3303.30 3304.80 1.50 GearCond.code: 3
 FDEPTH: 80 74 Validity code:
 DDEPTH: 80 74
 Towing dir: 310° Wire out: 400 m Speed: 30 kn*10
 Sorted: 54 Kg Total catch: 54.30 CATCH/HOUR: 108.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lachnolaimus maximus	17.10	4	15.75
Aluterus monoceros	16.80	16	15.47
Rhomboplites aurorubens	13.80	260	12.71
Eucinostomus argenteus	12.40	370	11.42
Calamus pennatula	9.00	18	8.29
Seriola rivoliana	7.60	9	7.00
Loligo plei	7.00	508	6.45
Pristipomoides macrophthalma	6.20	78	5.71
Paralichthys tropicus	4.00	2	3.68
Upeneus parvus	4.00	140	3.68
Lutjanus purpureus	3.80	20	3.50
Lutjanus synagris	2.00	2	1.84
Pareques sp	1.80	16	1.66
Pistularia petimba	1.20	8	1.10
Priacanthus arenatus	1.00	2	0.92
Trachurus lathami	0.70	48	0.64
Saurida normani	0.20	6	0.18
Syacium sp.	0.00	4	
Bothus ocellatus	0.00	2	
Haemulon aurolineatum	0.00	2	
Diplacrum bivittatum	0.00	4	
Total	108.60	100.00	

PROJECT STATION: 519
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1040 Long W 6756
 start stop duration Purpose code: 3
 TIME : 09:40 10:10 30 (min) Area code : 3
 LOG : 3311.10 3312.30 1.20 GearCond.code: 3
 FDEPTH: 73 73 Validity code:
 BDEPTH: 73 73
 Towing dir: 322° Wire out: 400 m Speed: 25 kn*10
 Sorted: 65 Kg Total catch: 65.60 CATCH/HOUR: 131.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rucinostomus argenteus	41.00	1066	31.25	428
Calanus pennatula	17.00	34	13.57	430
Lutjanus analis	12.40	4	9.45	
Rhomboplites aurorubens	10.00	128	7.62	431
Priacanthus arenatus	8.00	72	6.10	429
Saurida normani	7.00	96	5.34	
Mustelus canis	7.00	4	5.34	
Upeneus parvus	5.40	140	4.12	
Loligo plei	5.00	346	3.81	
Pristipomoides macrophthalmus	5.00	74	3.81	
Seriola rivoliana	3.60	4	2.74	
Aluterus monoceros	3.20	6	2.44	
Trachurus lathami	2.80	238	2.13	
Lutjanus purpureus	2.20	6	1.68	
Fistularia petimba	0.60	2	0.46	
Fistularia tabacaria	0.20	6	0.15	
Decapterus macarellus	0.00	4		
Ariomma bondi	0.00	10		
Diplectrum bivittatum	0.00	4		
Total	131.20		100.01	

PROJECT STATION: 520
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1043 Long W 6805
 start stop duration Purpose code: 3
 TIME : 11:42 12:12 30 (min) Area code : 3
 LOG : 3324.70 3325.90 1.20 GearCond.code: 3
 FDEPTH: 42 47 Validity code:
 BDEPTH: 42 47
 Towing dir: 10° Wire out: 250 m Speed: 28 kn*10
 Sorted: 99 Kg Total catch: 98.90 CATCH/HOUR: 197.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	64.00	20	32.36	432
Sphyraena guachancho	45.00	76	22.75	433
Calanus pennatula	24.00	54	12.13	
Lutjanus purpureus	21.60	2	10.92	
Lutjanus synagris	17.00	36	8.59	434
Scomberomorus cavalla	9.00	2	4.55	
Priacanthus arenatus	5.00	8	2.53	
Selene spixii	4.40	8	2.22	
Aluterus monoceros	3.00	2	1.52	
Chloroscombrus chrysurus	2.20	10	1.11	
Rhomboplites aurorubens	2.00	6	1.01	
Romora sp.	0.40	2	0.20	
Fistularia petimba	0.20	2	0.10	
Total	197.80		99.99	

PROJECT STATION: 521
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6808
 start stop duration Purpose code: 3
 TIME : 13:30 14:00 30 (min) Area code : 3
 LOG : 3336.90 3337.80 0.90 GearCond.code: 3
 FDEPTH: 67 65 Validity code:
 BDEPTH: 67 65
 Towing dir: 325° Wire out: 300 m Speed: 22 kn*10
 Sorted: 33 Kg Total catch: 102.50 CATCH/HOUR: 205.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	65.60	1180	32.00	436
Lutjanus synagris	44.80	74	21.85	435
Lutjanus griseus	22.60	4	11.02	
Chloroscombrus chrysurus	14.80	308	7.22	
Rucinostomus argenteus	12.40	248	6.05	
Seriola rivoliana	8.80	4	4.29	
Decapterus punctatus	8.00	268	3.90	
Loligo plei	6.00	152	2.93	
Caranx latus	4.00	4	1.95	
Selene spixii	4.00	4	1.95	
Decapterus macarellus	3.60	72	1.76	
Lutjanus analis	2.80	2	1.37	
Aluterus monoceros	2.40	2	1.17	
Priacanthus arenatus	2.00	4	0.98	
Upeneus parvus	1.20	32	0.59	
Caulolatilus guppyi	0.80	4	0.39	
Pristipomoides macrophthalmus	0.40	4	0.20	
Trachurus lathami	0.40	12	0.20	
Ariomma bondi	0.40	12	0.20	
Etrumeus teres	0.00	4		
Total	205.00		100.02	

PROJECT STATION: 522
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6814
 start stop duration Purpose code: 3
 TIME : 15:02 15:32 30 (min) Area code : 3
 LOG : 3346.30 3346.50 0.20 GearCond.code: 3
 FDEPTH: 65 55 Validity code:
 BDEPTH: 65 55
 Towing dir: 312° Wire out: 300 m Speed: 1 kn*10
 Sorted: 28 Kg Total catch: 60.24 CATCH/HOUR: 120.48

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	49.00	10	40.67	
Peprius paru	12.72	72	10.56	
Selene spixii	10.08	20	8.37	
Lutjanus purpureus	7.20	48	5.98	
Trachurus lathami	7.20	592	5.98	
Chloroscombrus chrysurus	7.20	74	5.98	
Lutjanus synagris	5.00	8	4.15	
Selar crumenophthalmus	4.08	76	3.39	
Sardinella aurita	3.12	300	2.59	
Decapterus macarellus	3.12	266	2.59	437
Albula vulpes	2.08	6	2.39	
Calanus penna	1.68	4	1.39	
Loligo plei	1.68	122	1.39	430
Albula nemoptera	1.68	4	1.39	
Pristipomoides macrophthalmus	1.44	10	1.20	
Anchoa sp	0.72	130	0.60	
Decapterus punctatus	0.72	12	0.60	
Rhomboplites aurorubens	0.48	4	0.40	
Decapterus tabl	0.24	4	0.20	
Diplectrum bivittatum	0.24	4	0.20	
Total	120.48		100.02	

PROJECT STATION: 519
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1040 Long W 6756
 start stop duration Purpose code: 3
 TIME : 16:40 17:08 28 (min) Area code : 3
 LOG : 3355.90 3356.30 0.40 GearCond.code: 3
 FDEPTH: 88 123 Validity code:
 BDEPTH: 88 123
 Towing dir: 300° Wire out: 450 m Speed: 8 kn*10
 Sorted: 32 Kg Total catch: 201.50 CATCH/HOUR: 403.00

SPECIES	CATCH/HOUR		% OF TOT. C
	weight	numbers	
Aluterus monoceros	195.00	118	45.16
Lutjanus analis	75.64	24	17.52
Seriola rivoliana	60.86	41	14.09
Rhomboplites aurorubens	42.86	596	9.93
Rhomboplites aurorubens	18.64	19	4.32
Scomberomorus cavalla	11.57	2	2.68
Lutjanus vivanus	8.14	9	1.89
Loligo plei	7.71	471	1.79
Lutjanus vivanus	7.71	21	1.79
Lutjanus purpureus	2.14	2	0.50
Lutjanus buccanella	1.50	2	0.35
Total	431.77		100.02

PROJECT STATION: 520
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1043 Long W 6805
 start stop duration Purpose code: 3
 TIME : 21:10 22:10 60 (min) Area code : 3
 LOG : 3396.10 3397.90 1.80 GearCond.code: 3
 FDEPTH: 248 256 Validity code:
 BDEPTH: 248 256
 Towing dir: 290° Wire out: 1050 m Speed: 20 kn*10
 Sorted: 30 Kg Total catch: 90.25 CATCH/HOUR: 180.50

SPECIES	CATCH/HOUR		% OF TOT. C
	weight	numbers	
Synagrops bellus	46.50	347	51.52
Steindachneria argenta	10.50	252	11.63
Coelorinchus caribbaeus	7.50	210	8.31
Illex coindetii	3.60	36	3.99
Solenocera sp	3.60	180	3.99
Pontinus longispinis	3.00	24	3.32
LEPIDOTRUTHIDAE	2.70	120	2.99
LOLIGINIDAE	2.40	18	2.66
PENNAIDAE	2.10	306	2.33
Lepophidium profundorum	1.90	21	2.11
Bembrops sp	1.50	21	1.66
Drotula barbata	1.20	3	1.33
Peristodion sp	1.20	21	1.33
Hoplunnis sp	0.90	75	1.00
Lepidopus caudatus	0.60	6	0.66
Argentina sp.	0.60	63	0.66
Nealotus tripos	0.30	6	0.33
Plesionika edwardsii	0.15	39	0.17
Pocillopsotta albomarginata	0.00	6	
Monolene sp	0.00	6	
Zaliotes mcgintyi	0.00	18	
MORIDAE	0.00	15	
Total	90.25		99.99

PROJECT STATION: 521
 DATE: 9/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6808
 start stop duration Purpose code: 3
 TIME : 23:15 23:53 30 (min) Area code : 3
 LOG : 3404.60 3405.90 1.30 GearCond.code: 3
 FDEPTH: 232 233 Validity code:
 BDEPTH: 232 233
 Towing dir: 290° Wire out: 1000 m Speed: 20 kn*10
 Sorted: 28 Kg Total catch: 56.50 CATCH/HOUR: 113.00

SPECIES	CATCH/HOUR		% OF TOT. C
	weight	numbers	
Synagrops bellus	27.79	249	31.15
Pristipomoides macrophthalmus	11.05	76	12.39
Lepophidium profundorum	7.89	66	8.84
Steindachneria argenta	7.89	196	8.84
Nealotus tripos	5.37	95	6.02
Illex coindetii	4.11	28	4.61
Hoplunnis sp	3.16	19	3.54
Argentina sp.	2.53	107	3.54
Coelorinchus caribbaeus	2.21	47	2.84
Gephyroberyx darwini	2.21	3	2.48
LEPIDOTRUTHIDAE	2.05	90	2.30
Solenocera sp	1.89	120	2.12
Plesionika edwardsii	1.58	123	1.77
Peristodion sp	1.58	25	1.77
PENNAIDAE	1.42	101	1.59
Synodus poeyi	1.26	19	1.41
Antigonia capros	0.95	6	1.06
Brotula barbata	0.32	51	0.36
Monolene sp	0.32	25	0.36
Ariomma bondi	0.32	3	0.36
Bembrops sp	0.16	6	0.18
Brosmiculus imberbis	0.00	3	
Synagrops sp.	0.00	25	
Polymixia lowei	0.00	9	
APOGONIDAE	0.00	9	
Zaliotes mcgintyi	0.00	19	
MYCTOPHIDAE	0.00	3	
Prionotus stearnsi	0.00	3	
Total	56.50		100.01

PROJECT STATION: 526
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 6009
 TIME : 01:07 start stop duration
 LOG : 3414.90 3416.80 1.90 Purpose code: 3
 FDEPTH: 264 264 Area code : 3
 BDEPTH: 264 264 GearCond.code:
 Validity code:
 Towing dir: 270° Wire out: 1000 m Speed: 20 kn*10
 Sorted: 28 Kg Total catch: 41.24 CATCH/HOUR: 41.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Illex coindetti	8.05	74	21.46	
Coelorinchus caribbaeus	4.95	159	12.00	
Pontinus longispinus	3.75	50	9.09	
Argentina sp.	2.25	108	5.46	
Synodus poeyi	2.25	5	5.46	
PENNAIDAE	2.25	620	5.46	
Synagrops sp.	2.25	180	5.46	
Brotula barbata	2.10	44	5.09	
Hoplunnis sp	1.80	86	4.36	
Synagrops bellus	1.50	23	3.64	
HERMUCIIDAE	1.50	3	3.64	
Metanagrops binghami	1.50	35	3.64	
Solenocera sp	1.05	47	2.55	
Poristicedon sp	1.05	20	2.55	
Plesionika edwardsii	0.75	50	1.82	
Steindachneria argenta	0.75	9	1.82	
Nealotus tripes	0.75	8	1.82	
Prionotus roseus	0.45	8	1.09	
Polymixia lowei	0.45	21	1.09	
Ancylopsetta dilecta	0.30	2	0.73	
Antigonia capros	0.30	5	0.73	
Lepophidium profundorum	0.22	6	0.53	
Lepidopus caudatus	0.15	2	0.36	
Monolene sp	0.07	9	0.17	
Cyttopsis roseus	0.00	2		
Epigonus sp	0.00	2		
MYXOPHIDAE	0.00	30		
Zaliotus megintyi	0.00	0		
Total	41.24	100.02		

PROJECT STATION: 529
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1 Long W 6
 TIME : 10:35 start stop duration
 LOG : 3479.50 3480.60 1.10 Purpose code: 3
 FDEPTH: 62 58 Area code : 3
 BDEPTH: 62 58 GearCond.code:
 Validity code:
 Towing dir: 290° Wire out: 300 m Speed: 20 kn*10
 Sorted: 62 Kg Total catch: 61.70 CATCH/HOUR: 123.4

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	44.60	76	36.14	448
Lutjanus purpurus	25.40	140	20.58	449
Lutjanus analis	21.40	6	17.34	
Eucinostomus argenteus	12.60	222	10.21	4
Loligo plei	3.60	244	2.92	4
Selene vomer	3.60	6	2.92	
Rhomboplites aurorubens	3.00	16	2.43	
Salene spixii	2.60	8	2.11	
Chloroscombrus chrysurus	1.20	8	0.97	
Calamus pennatula	1.20	2	0.97	
Calamus penna	1.00	2	0.81	
Sphyræna picudilla	1.00	4	0.81	
Cyclosetta chittendeni	0.80	2	0.65	
Loligo pealei	0.60	50	0.49	
Caulolatilus intermedius	0.40	2	0.32	
Pristipomoides macrophthalmus	0.40	4	0.32	
Upeneus parvus	0.00	2		
Diplectrum bivittatum	0.00	2		
Total	123.40	99.99		

PROJECT STATION: 530
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1143 Long W ()
 TIME : 12:34 start stop duration
 LOG : 3493.70 3494.50 0.80 Purpose code: 3
 FDEPTH: 70 68 Area code : 3
 BDEPTH: 70 68 GearCond.code:
 Validity code:
 Towing dir: 316° Wire out: 350 m Speed: 20 kn*10
 Sorted: 62 Kg Total catch: 61.65 CATCH/HOUR: 123.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Seriola rivoliana	36.00	20	29.20	
Lutjanus analis	27.00	8	21.90	
Loligo plei	18.00	1800	14.60	
Trachurus lathami	17.00	1060	13.79	
Lutjanus synagris	11.40	18	9.25	
Eucinostomus argenteus	3.80	76	3.08	
Fistularia pentadactyla	2.60	6	2.11	
Calamus pennatula	2.20	4	1.78	
Selar crumenophthalmus	2.20	76	1.78	
Rhomboplites aurorubens	1.00	30	1.46	
Pristipomoides macrophthalmus	0.50	14	0.41	
Upeneus parvus	0.20	16	0.16	
Decapterus macarellus	0.20	6	0.16	
Scomber japonicus	0.20	8	0.16	
Priacanthus arenatus	0.20	4	0.16	
Diplectrum bivittatum	0.00	2		
Synodus poeyi	0.00	2		
Total	123.30	100.00		

PROJECT STATION: 531
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1146 Long W 6939
 TIME : 14:20 start stop duration
 LOG : 3504.40 3505.10 0.70 Purpose code: 3
 FDEPTH: 23 20 Area code : 3
 BDEPTH: 23 20 GearCond.code:
 Validity code:
 Towing dir: 325° Wire out: 100 m Speed: 15 kn*10
 Sorted: 17 Kg Total catch: 64.70 CATCH/HOUR: 129.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	37.60	972	29.06	
Lutjanus analis	22.40	20	17.31	
Calamus pennatula	10.80	24	8.35	
Selar crumenophthalmus	6.00	184	5.26	453
Lutjanus synagris	6.00	38	4.26	
Trachinotus falcatus	6.00	2	4.64	
Priacanthus arenatus	5.60	12	4.33	
Upeneus parvus	5.20	260	4.02	
Calamus penna	4.00	10	3.71	
Aluterus monoceros	4.00	6	3.71	
Lactophrys trigonus	4.60	2	3.55	
Selene vomer	3.20	4	2.47	
Loligo plei	3.20	260	2.47	
Scomberomorus cavalla	2.40	4	1.85	
Balistes capricornus	2.00	4	1.55	
Lagocephalus laevigatus	1.60	4	1.24	
Caranx crysos	0.80	12	0.62	
Decapterus macarellus	0.60	148	0.46	
Decapterus punctatus	0.20	4	0.15	
Total	129.40	100.01		

PROJECT STATION: 532
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1152 Long W 6943
 TIME : 16:31 start stop duration
 LOG : 3516.50 3517.50 1.00 Purpose code: 3
 FDEPTH: 53 45 Area code : 3
 BDEPTH: 53 45 GearCond.code:
 Validity code:
 Towing dir: 323° Wire out: 250 m Speed: 20 kn*10
 Sorted: 51 Kg Total catch: 51.10 CATCH/HOUR: 102.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	36.00	34	35.23	
Lutjanus synagris	24.00	32	23.48	
Calamus penna	14.40	30	14.09	
Lutjanus purpurus	5.40	36	5.20	
Eucinostomus argenteus	5.20	80	5.09	
Rhomboplites aurorubens	4.40	326	4.31	
Loligo plei	3.40	256	3.33	
Priacanthus arenatus	2.20	4	2.15	
Calamus pennatula	2.00	2	1.96	
Sphyræna picudilla	1.00	4	0.98	
Lutjanus vivanus	1.00	2	0.98	
Sardinella aurita	0.80	50	0.78	
Upeneus parvus	0.60	16	0.59	
Chloroscombrus chrysurus	0.50	2	0.49	
Trachurus lathami	0.50	62	0.49	
Haemulon boschnae	0.40	52	0.39	
Scomber japonicus	0.40	4	0.39	
Decapterus macarellus	0.00	6		
Selar crumenophthalmus	0.00	6		
Total	102.20	100.01		

PROJECT STATION: 527
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 6948
 TIME : 06:00 start stop duration
 LOG : 3446.30 3446.50 0.20 Purpose code: 3
 FDEPTH: 57 60 Area code : 3
 BDEPTH: 57 60 GearCond.code:
 Validity code:
 Towing dir: 273° Wire out: 250 m Speed: 4 kn*10
 Sorted: 33 Kg Total catch: 213.30 CATCH/HOUR: 426.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chirocentron bleakerianus	153.60	50944	36.01	
Selene spixii	64.00	224	15.00	442
Scomberomorus brasiliensis	55.60	48	13.03	444
Lutjanus griseus	49.00	6	11.49	443
Lutjanus analis	38.80	12	9.10	445
Peprilus paru	11.20	24	2.63	
Chaetodipterus faber	9.20	4	2.16	
Lutjanus synagris	7.60	10	1.78	
Priacanthus arenatus	6.40	16	1.50	
Selene vomer	5.60	8	1.31	
Loligo plei	3.20	120	0.75	
Trichinurus lepturus	3.20	8	0.75	
Eucinostomus argenteus	3.20	96	0.75	
Selar crumenophthalmus	2.80	16	0.66	
Lutjanus purpureus	2.40	8	0.56	
Rhomboplites aurorubens	2.40	24	0.56	
Upeneus parvus	2.00	184	0.47	
Sardinella aurita	2.00	56	0.47	
Loligo pealei	1.60	96	0.38	
Opiationema ceylanum	1.60	8	0.38	
Sphyræna picudilla	1.20	8	0.28	
Decapterus punctatus	0.00	8		
Etruspus teras	0.00	8		
Total	426.60	100.02		

PROJECT STATION: 528
 DATE: 10/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1133 Long W 6903
 TIME : 08:37 start stop duration
 LOG : 3465.60 3466.70 1.10 Purpose code: 3
 FDEPTH: 81 77 Area code : 3
 BDEPTH: 81 77 GearCond.code:
 Validity code:
 Towing dir: 281° Wire out: 400 m Speed: 25 kn*10
 Sorted: 46 Kg Total catch: 46.50 CATCH/HOUR: 93.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	13.00	158	13.98	446
Lutjanus analis	9.80	4	10.54	
Lutjanus synagris	9.60	20	10.32	
Scomberomorus brasiliensis	8.40	8	9.03	
Dasyatis sp	7.00	2	7.53	
Scomberomorus cavalla	6.50	2	6.99	
Selene spixii	6.00	28	6.45	447
Seriola rivoliana	5.20	6	5.59	
Alectis ciliaris	4.60	4	4.95	
Lagocephalus laevigatus	3.60	4	3.87	
Myliobatis freminvillei	3.00	2	3.23	
Trichinurus lepturus	2.60	4	2.80	
Eucinostomus argenteus	2.00	34	2.15	
Upeneus parvus	1.60	18	1.72	
Trachurus lathami	1.60	46	1.72	
Albulia nanoptera	1.60	2	1.72	
Selar crumenophthalmus	1.60	8	1.72	
Rhomboplites aurorubens	1.30	14	1.40	
Loligo plei	1.20	92	1.29	
Pristipomoides macrophthalmus	1.00	20	1.08	
Priacanthus arenatus	0.80	2	0.86	
Prionotus hani	0.30	2	0.32	
Loligo pealei	0.30	12	0.32	
Lutjanus purpureus	0.30	2	0.32	
Decapterus macarellus	0.10	4	0.11	
Total	93.00	100.01		

PROJECT STATION: 533
 DATE: 11/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1206 Long W 6945
 TIME : 10:50 start stop duration Purpose code: 3
 LOG : 3667.30 3667.30 30 (min) Area code : 3
 FDEPTH: 46 28 GearCond.code: 3
 BDEPTH: 46 28 Validity code:
 Towing dir: 330° Wire out: 250 m Speed: kn*10
 Sorted: 107 Kg Total catch: 106.80 CATCH/HOUR: 213.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	104.00	96	454
Calamus penna	23.40	50	455
Selar crumenophthalmus	19.60	82	457
Lutjanus vivanus	12.60	166	456
Seriola rivoliana	12.40	12	5.81
Scomberomorus cavalla	10.40	8	4.87
Lutjanus purpureus	9.60	42	4.49
Rhomboplites aurorubens	5.40	50	2.53
Lutjanus synagris	3.60	6	1.69
Upeneus parvus	2.40	268	1.12
Loligo plei	2.20	210	1.03
Calamus pennatula	2.00	2	0.94
Lactophrys trigonus	2.00	6	0.94
Acanthostracion quadricornis	1.40	4	0.66
Eucinostomus argenteus	1.00	10	0.47
Priacanthus arenatus	1.00	2	0.47
Decapterus macarellus	0.40	44	0.19
Selar crumenophthalmus	0.20	20	0.09
Decapterus punctatus	0.00	2	
Total	213.60	100.03	

PROJECT STATION: 537
 DATE: 11/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7038
 TIME : 18:20 start stop duration Purpose code: 3
 LOG : 3710.00 3711.30 1.30 Area code : 3
 FDEPTH: 69 71 GearCond.code: 3
 BDEPTH: 69 71 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 25 kn*10
 Sorted: 26 Kg Total catch: 47.19 CATCH/HOUR: 94.38

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Priacanthus arenatus	24.00	352	25.43
Lutjanus synagris	9.90	14	10.49
Pristipomoides macrophthalmus	9.90	214	10.49
Scomber japonicus	9.90	382	10.49
Trachurus lathami	6.90	516	7.31
Sphyræna picudilla	6.00	20	6.36
Loligo plei	5.40	64	5.72
Synodus foetens	3.90	18	4.13
Pagrus pagrus	3.20	6	3.39
Lutjanus analis	2.70	2	2.86
Eucinostomus argenteus	2.70	66	2.86
Sphyræna quachancho	2.40	4	2.54
Rhomboplites aurorubens	1.50	16	1.59
Haemulon steindachneri	1.20	12	1.27
Selar crumenophthalmus	0.90	12	0.95
Upeneus parvus	0.90	36	0.95
Calamus pennatula	0.60	4	0.64
Caulolatilus intermedius	0.60	4	0.64
Etrumeus teres	0.44	24	0.47
Fistularia tabacaria	0.44	6	0.47
Calamus cervigoni	0.30	4	0.32
Diplectrum bivittatum	0.30	6	0.32
Dactylopterus volitans	0.30	4	0.32
Sardinella aurita	0.00	4	
Sphoeroides dorsalis	0.00	4	
Total	94.38	100.01	

PROJECT STATION: 534
 DATE: 11/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1218 Long W 7005
 TIME : 13:25 start stop duration Purpose code: 3
 LOG : 3684.50 3684.60 0.10 Area code : 3
 FDEPTH: 31 27 GearCond.code: 3
 BDEPTH: 31 27 Validity code:
 Towing dir: 291° Wire out: 150 m Speed: 2 kn*10
 Sorted: 6 Kg Total catch: 5.90 CATCH/HOUR: 11.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Calamus penna	6.60	44	72.88
Calamus pennatula	2.00	14	16.95
Diodon sp.	0.80	2	6.78
Pseudupeneus maculatus	0.40	2	3.39
Total	11.00	100.00	

PROJECT STATION: 538
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7058
 TIME : 06:27 start stop duration Purpose code: 3
 LOG : 3815.30 3816.80 1.50 Area code : 7
 FDEPTH: 21 17 GearCond.code: 7
 BDEPTH: 21 17 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 30 kn*10
 Sorted: 29 Kg Total catch: 199.50 CATCH/HOUR: 399.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Chirocentrodon bleekeriianus	18.20	4176	45.41
Ctenoscoiaena gracilicirrus	38.40	5112	9.62
Diapterus rhombus	19.20	192	4.81
Chloroscombrus chrysurus	19.20	5628	4.81
Pellona harroweri	19.20	1944	4.81
Microgogonias furnieri	17.60	26	4.41
Trichiurus lepturus	16.80	228	4.21
Loligo pealei	15.60		3.91
Chloroscombrus chrysurus	13.20	132	3.31
Harengula jaguana	9.60	780	2.41
Elops saurus	8.80	12	2.21
Cynoscion microlepidotus	7.80	192	1.95
Cynoscion virescens	6.80	6	1.70
Lutjanus synagris	4.40	4	1.10
Lepophidium profundorum	3.60	72	0.90
Eucinostomus argenteus	3.20	132	0.80
Prionotus punctatus	3.20	264	0.80
Peprilus paru	2.80	8	0.70
Opisthonema oglinum	2.40	12	0.60
Cynoscion leiarchus	1.80	72	0.45
Penaeus notialis	1.20	68	0.30
Selene spixii	1.20	24	0.30
Trachinotus cayennensis	1.00	2	0.25
Caranx hippos	0.40	2	0.10
Penaeus schmitti	0.40	8	0.10
Larimus breviceps	0.00	12	
Forichthys pauciradiatus	0.00	60	
Total	399.00	99.97	

PROJECT STATION: 535
 DATE: 11/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7019
 TIME : 15:20 start stop duration Purpose code: 3
 LOG : 3695.60 3695.90 0.30 Area code : 3
 FDEPTH: 73 75 GearCond.code: 3
 BDEPTH: 73 75 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: 6 kn*10
 Sorted: 19 Kg Total catch: 18.00 CATCH/HOUR: 37.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Sphyræna picudilla	19.20	100	51.06
Priacanthus arenatus	5.80	100	15.43
Sphyræna quachancho	4.60	8	12.23
Loligo pealei	2.80	256	7.45
Pristipomoides macrophthalmus	1.40	20	3.72
Selar crumenophthalmus	1.00	4	2.66
Etrumeus teres	0.50	14	1.33
Prionotus stearnsi	0.40	12	1.06
Trichiurus lepturus	0.40	18	1.06
Loligo plei	0.30	4	0.80
Penaeus notialis	0.30	2	0.80
Upeneus parvus	0.30	6	0.80
Serranus phoebe	0.20	6	0.53
Synodus poeyi	0.20	14	0.53
Trachurus lathami	0.20	4	0.53
Total	37.60	99.99	

PROJECT STATION: 539
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7111
 TIME : 08:08 start stop duration Purpose code: 3
 LOG : 3827.70 3829.20 1.50 Area code : 7
 FDEPTH: 14 15 GearCond.code: 7
 BDEPTH: 14 15 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 30 kn*10
 Sorted: 42 Kg Total catch: 42.05 CATCH/HOUR: 84.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trichiurus lepturus	19.20	154	22.83
Microgogonias furnieri	9.60	62	11.41
Chirocentrodon bleekeriianus	7.80	1606	9.27
Cynoscion sp	6.90	868	8.20
Bairdiella sp	6.90	1646	8.20
Anchoa spinifer	5.90	572	7.02
Xiphopenaeus kroyeri	5.40	1162	6.42
Nematopalaemon schmitti	3.00	10	3.57
Peprilus paru	3.00	50	3.57
Chaetodipterus faber	2.80	4	3.33
Macrodon anolydon	2.00	12	2.38
Larimus breviceps	1.40	2	1.66
Forichthys pauciradiatus	1.00	30	1.19
Diapterus rhombus	1.00	30	1.19
Harengula jaguana	1.00	20	1.19
Loligo pealei	1.00	286	1.19
Pellona harroweri	1.00	100	1.19
Opisthonema oglinum	0.70	2	0.83
Chloroscombrus chrysurus	0.50	70	0.59
Cynoscion microlepidotus	0.40	2	0.48
Rhizoprionodon lalandii	0.40	2	0.48
Penaeus notialis	0.20	4	0.24
Symphurus plagiusa	0.00	10	
Penaeus schmitti	0.00	6	
Total	84.10	100.00	

PROJECT STATION: 536
 DATE: 11/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7027
 TIME : 16:46 start stop duration Purpose code: 3
 LOG : 3701.50 3702.20 0.70 Area code : 3
 FDEPTH: 69 68 GearCond.code: 3
 BDEPTH: 69 68 Validity code:
 Towing dir: 265° Wire out: 350 m Speed: 15 kn*10
 Sorted: 26 Kg Total catch: 50.89 CATCH/HOUR: 117.78

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Mycteroperca interstitialis	29.40	8	24.96
Priacanthus arenatus	21.00	318	17.83
Sphyræna picudilla	16.00	78	14.26
Pristipomoides macrophthalmus	9.00	132	7.64
Rhomboplites aurorubens	7.20	36	6.11
Trachurus lathami	5.70	298	4.84
Lutjanus analis	5.40	2	4.58
Pagrus pagrus	4.20	10	3.57
Lutjanus purpureus	3.60	4	3.06
Synodus poeyi	2.70	12	2.29
Loligo plei	2.70	16	2.29
Etrumeus teres	2.10	78	1.78
Eucinostomus argenteus	1.80	34	1.53
Lutjanus synagris	1.40	2	1.19
Upeneus parvus	1.04	34	0.88
Haemulon steindachneri	0.90	4	0.76
Calamus penna	0.90	6	0.76
Scomber japonicus	0.74	12	0.63
Ancylopsis quadricellata	0.60	4	0.51
Selar crumenophthalmus	0.60	4	0.51
Total	117.78	99.98	

PROJECT STATION: 540
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7124
 TIME : 10:00 start stop duration 30 (min) Purpose code: 3
 LOG : 3842.80 3844.30 1.50 Area code : 7
 FDEPTH: 23 22 GearCond.code: 7
 BDEPTH: 23 22 Validity code:
 Towing dir: 216° Wire out: 150 m Speed: 30 kn*10
 Sorted: 41 Kg Total catch: 310.00 CATCH/HOUR: 637.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	301.00	6230	47.21	
Chloroscombrus chrysurus	91.00	1806	14.27	476
Pellona harroweri	81.20	8218	12.74	
Micropogonias furnieri	32.00	56	5.02	479
Chirocentron bleekermanus	23.00	4452	3.73	
Peprilus paru	18.20	238	2.85	
Micropogonias furnieri	16.80	182	2.63	477
Lutjanus synagris	13.60	16	2.13	
Cynoscion leiarchus	13.00	24	2.04	478
Opisthonema oglinum	11.20	84	1.76	
Cynoscion microlepidotus	9.80	266	1.54	
Diapterus rhombeus	5.60	210	0.88	
Harengula jaguana	5.60	182	0.88	
Selene spixii	4.20	56	0.66	
Rhizoprionodon lalandii	3.60	6	0.56	
Penaeus schmitti	2.80	56	0.44	
Elops saurus	1.80	2	0.28	
Chaetodipterus faber	1.60	2	0.25	
Dasyatis guttata	0.80	2	0.13	
Anchoa spinifer	0.00	28		
Loligo pealei	0.00	140		
Ctenosciaena gracilicirrus	0.00	56		
Total	637.60		100.00	

PROJECT STATION: 541
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1130 Long W 7130
 TIME : 11:36 start stop duration 34 (min) Purpose code: 3
 LOG : 3853.80 3855.50 1.70 Area code : 3
 FDEPTH: 19 20 GearCond.code: 7
 BDEPTH: 19 20 Validity code:
 Towing dir: 250° Wire out: 100 m Speed: 30 kn*10
 Sorted: 30 Kg Total catch: 396.25 CATCH/HOUR: 699.26

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	344.12	3233	49.21	400
Trichiurus lepturus	87.18	2156	12.47	401
Pellona harroweri	80.29	6371	11.48	402
Opisthonema oglinum	68.82	520	9.84	403
Micropogonias furnieri	39.00	459	5.76	
Peprilus paru	34.41	321	4.92	
Cynoscion microlepidotus	11.47	275	1.64	
Harengula jaguana	9.18	229	1.31	
Rhizoprionodon lalandii	9.18	46	1.31	
Selene spixii	8.03	138	1.15	
Eucinostomus gula	4.59	69	0.66	
Cynoscion poyii	2.29	23	0.33	
Penaeus schmitti	0.53	9	0.08	
Penaeus notialis	0.18	2	0.03	
Total	699.27		100.01	

PROJECT STATION: 542
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1126 Long W 7142
 TIME : 13:25 start stop duration 30 (min) Purpose code: 3
 LOG : 3867.30 3868.70 1.40 Area code : 3
 FDEPTH: 21 21 GearCond.code: 7
 BDEPTH: 21 21 Validity code:
 Towing dir: 252° Wire out: 100 m Speed: 30 kn*10
 Sorted: 32 Kg Total catch: 200.70 CATCH/HOUR: 401.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	249.60	1546	62.18	404
Chloroscombrus chrysurus	34.80	4036	0.67	405
Opisthonema oglinum	30.00	300	7.47	406
Scomberomorus regalis	22.80	36	5.68	
Sphyraena guachancho	21.60	132	5.38	
Lutjanus synagris	13.80	14	3.44	
Peprilus paru	10.80	36	2.69	
Caranx hippos	6.00	2	1.59	
Selene vomer	4.80	12	1.20	
Lolliguncula brevis	4.80	564	1.20	
Anchoa lyolepis	1.20	408	0.30	
Opisthonema oglinum	1.20	168	0.30	
Total	401.40		100.00	

PROJECT STATION: 543
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7132
 TIME : 15:40 start stop duration 30 (min) Purpose code: 3
 LOG : 3885.80 3887.50 1.70 Area code : 3
 FDEPTH: 15 15 GearCond.code: 7
 BDEPTH: 15 15 Validity code:
 Towing dir: 108° Wire out: 100 m Speed: 35 kn*10
 Sorted: 23 Kg Total catch: 206.50 CATCH/HOUR: 413.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa spinifer	64.00	9360	15.50	490
Xiphopenaeus kroyeri	56.00	10640	13.56	488
Trichiurus lepturus	54.00	648	13.08	489
Ctenosciaena gracilicirrus	40.00	1680	9.69	
Pellona harroweri	20.00	1040	6.78	
Micropogonias furnieri	25.60	60	6.20	487
Pomacanthus arcuatus	18.40	12	4.46	
Cynoscion microlepidotus	16.00	160	3.87	
Chloroscombrus chrysurus	14.00	90	3.39	
Scomberomorus regalis	14.00	10	3.39	
Sphyra tudes	13.00	40	3.15	
Opisthonema oglinum	12.00	70	2.91	
Peprilus paru	9.00	60	2.18	
Harengula jaguana	8.00	240	1.94	
Trichiurus lepturus	8.00	880	1.94	
Rhizoprionodon lalandii	8.00	40	1.94	
Lolliguncula brevis	6.00	1160	1.45	
Hemicaranx amblyrhynchus	6.00	10	1.45	
Lycengraulis grossidens	4.00	120	0.97	
Chirocentron bleekermanus	4.00	560	0.97	
Eucinostomus gula	4.00	120	0.97	
Penaeus schmitti	1.00	18	0.24	
Total	413.00		100.03	

PROJECT STATION: 544
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1117 Long W 7124
 TIME : 16:55 start stop duration 30 (min) Purpose code: 3
 LOG : 3892.70 3894.30 1.60 Area code : 7
 FDEPTH: 13 13 GearCond.code: 7
 BDEPTH: 13 13 Validity code:
 Towing dir: 100° Wire out: 100 m Speed: 32 kn*10
 Sorted: 21 Kg Total catch: 110.60 CATCH/HOUR: 221.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	28.00	576	12.66	
Micropogonias furnieri	27.40	52	12.39	491
Macrondon ancylodon	22.40	304	10.13	492
Pellona harroweri	19.60	1176	8.86	
Anchoa spinifer	15.60	1936	7.05	
Chaetodipterus faber	12.80	8	5.79	
Sciaenidae juveniles	12.40	680	5.61	
Micropogonias furnieri	12.00	176	5.42	493
Rhinoptera bonasus	11.00	2	4.97	
Xiphopenaeus kroyeri	10.80	2288	4.88	
Chirocentron bleekermanus	10.80	1952	4.88	
Chloroscombrus chrysurus	9.20	64	4.16	
Sphyra tudes	8.00	4	3.62	
Chloroscombrus chrysurus	6.80	160	3.07	
Opisthonema oglinum	4.80	32	2.17	
Harengula jaguana	2.00	80	0.90	
Cynoscion sp	2.00	64	0.90	
Dasyatis guttata	1.20	24	0.90	
Isopisthus parvipinnis	1.20	24	0.54	
Larimus breviceps	0.80	2	0.36	
Rhizoprionodon lalandii	0.40	10	0.18	
Peprilus paru	0.00	8		
Selene spixii	0.00	8		
Loligo pealei	0.00	80		
Total	221.20		99.98	

PROJECT STATION: 545
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 7113
 TIME : 18:45 start stop duration 30 (min) Purpose code: 3
 LOG : 3907.90 3909.60 1.70 Area code : 3
 FDEPTH: 15 15 GearCond.code: 7
 BDEPTH: 15 15 Validity code:
 Towing dir: 32° Wire out: 100 m Speed: 32 kn*10
 Sorted: 28 Kg Total catch: 150.75 CATCH/HOUR: 301.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	89.00	770	29.52	
Sciaenidae juveniles	43.00		14.26	
Macrondon ancylodon	20.00	260	9.29	
Chirocentron bleekermanus	26.60	3680	8.82	
Micropogonias furnieri	23.20	46	7.69	494
Xiphopenaeus kroyeri	20.00	3720	6.63	
Anchoa spinifer	17.00	1490	5.64	
Pellona harroweri	13.00	730	4.31	
Nematopalaeon schmitti	8.00	5010	2.65	
Micropogonias furnieri	8.00	170	2.65	495
Cynoscion sp	5.00	300	1.66	
Peprilus paru	3.00	70	1.00	
Selene spixii	3.00	70	1.00	
Prionotus punctatus	3.00	30	1.00	
Larimus breviceps	2.50	20	0.83	
Opisthonema oglinum	2.00	30	0.66	
Chloroscombrus chrysurus	2.00	130	0.66	
Synodus foetens	1.60	10	0.53	
Lutjanus synagris	1.60	2	0.53	
Loligo pealei	1.00	170	0.33	
Penaeus schmitti	0.60	16	0.20	
Penaeus notialis	0.40	4	0.13	
Symphurus sp	0.00	60		
Total	301.50		99.99	

PROJECT STATION: 546
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7100
 TIME : 21:00 start stop duration 30 (min) Purpose code: 3
 LOG : 3926.40 3927.80 1.40 Area code : 3
 FDEPTH: 13 14 GearCond.code: 7
 BDEPTH: 13 14 Validity code:
 Towing dir: 54° Wire out: 100 m Speed: 30 kn*10
 Sorted: 24 Kg Total catch: 144.00 CATCH/HOUR: 288.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	60.60	360	21.04	497
Micropogonias furnieri	51.60	300	17.92	496
Chirocentron bleekermanus	48.00	8220	16.67	
Chloroscombrus chrysurus	21.60	96	7.50	
Lepophidium profundorum	21.00	600	7.29	
Elops saurus	14.40	12	5.00	
Cynoscion leiarchus	9.60	12	3.33	
Oligoplites saurus	8.40	24	2.92	
Synodus foetens	7.20	12	2.50	
Scomberomorus cavalla	7.20	12	2.50	
Diapterus rhombeus	7.20	156	2.50	
Chloroscombrus chrysurus	6.00	720	2.08	
Porichthys pauciradiatus	6.00	540	2.08	
Loligo pealei	6.00	360	2.08	
Trichiurus lepturus	3.60	84	1.25	
Xiphopenaeus kroyeri	3.60	600	1.25	
Bairdiella sp	3.00	360	1.04	
Penaeus schmitti	2.40	60	0.83	
Selene spixii	0.60	12	0.21	
Diplectrum bivittatum	0.00	60		
Prionotus punctatus	0.00	100		
Total	288.00		99.99	

PROJECT STATION: 547
 DATE: 12/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 7047
 start stop duration
 TIME : 23:30 24:05 35 (min) Purpose code: 3
 LOG : 3942.30 3943.60 1.30 Area code : 3
 FDEPTH: 24 23 GearCond.code: 3
 BDEPTH: 24 23 Validity code:
 Towing dir: 180° Wire out: 100 m Speed: 28 kn*10
 Sorted: 26 Kg Total catch: 131.00 CATCH/HOUR: 224.57

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekarianus	50.06	27013	22.29	
Cynoscion similis	34.00	34	15.50	498
Anchoa lyolepis	20.80	14469	12.82	
Chloroscombrus chrysurus	14.40	1072	6.41	
Synodus poeyi	13.03	117	5.80	
Haemulon aurolineatum	10.29	1577	4.58	
Prionotus punctatus	10.29	27	4.58	
Chloroscombrus chrysurus	9.60	41	4.27	
Orthopristis ruber	9.60	41	4.27	
Trichiurus lepturus	6.86	21	3.05	
Sphyræna guachancho	6.86	7	3.05	
Lepophidium profundorum	5.49	343	2.44	
Conodon nobilis	4.46	5	1.99	
Micropogonias furnieri	4.29	5	1.91	
Hemicaranx emblyrhynchus	4.11	7	1.83	
Menticirrhus americanus	3.77	7	1.68	
Micropogonias furnieri	3.43	21	1.53	
Lutjanus synagris	3.43	7	1.53	
Pennaeus notialis	1.03	26	0.46	
Rucinostomus gula	0.00	7		
Opisthonema oglinum	0.00	21		
Sardinella aurita	0.00	7		
Lolliguncula brevis	0.00	48		
Porichthys sp	0.00	14		
Total	224.60		99.99	

PROJECT STATION: 548
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1130 Long W 7032
 start stop duration
 TIME : 03:20 03:58 30 (min) Purpose code: 3
 LOG : 3976.50 3978.20 1.70 Area code : 3
 FDEPTH: 33 31 GearCond.code: 3
 BDEPTH: 33 31 Validity code:
 Towing dir: 06° Wire out: 150 m Speed: 35 kn*10
 Sorted: 27 Kg Total catch: 110.90 CATCH/HOUR: 221.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	50.40	6408	22.72	
Eucinostomus argenteus	30.40	1240	17.31	
Opisthonema oglinum	18.40	118	0.30	501
Sardinella aurita	14.00	408	6.31	500
Loligo plei	10.40	160	4.69	
Diplactrum radiale	9.60	384	4.33	
Chloroscombrus chrysurus	9.60	248	4.33	
Lagodon rhomboides	8.00	24	3.61	
Orthopristis ruber	8.00	24	3.61	
Synodus poeyi	6.40	448	2.89	
Priacanthus arenatus	6.40	16	2.89	
Lepophidium sp	4.00	96	2.16	
Upeneus parvus	4.00	208	2.16	
Prionotus punctatus	4.00	104	2.16	
Menticirrhus americanus	4.00	16	2.16	
Porichthys sp	3.20	32	1.44	
Lolliguncula sp	3.20	224	1.44	
Pennaeus brasiliensis	3.20	106	1.44	
Diplactrum formosum	2.80	40	1.26	499
Pomatomus saltatrix	2.40	8	1.08	
Selene spixii	1.60	8	0.72	
Diplactrum bivittatum	1.60	16	0.72	
Dactylopterus volitans	1.60	80	0.72	
Scomber japonicus	1.60	8	0.72	
Trichopsetta ventralis	0.80	8	0.36	
Diplabattus guamachensis	0.80	16	0.36	
Pennaeus notialis	0.20	4	0.09	
Prionotus carolinus	0.00	32		
Total	221.00		99.98	

PROJECT STATION: 549
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1131 Long W 7020
 start stop duration
 TIME : 06:37 07:07 30 (min) Purpose code: 3
 LOG : 3991.80 3993.50 1.70 Area code : 3
 FDEPTH: 28 28 GearCond.code: 3
 BDEPTH: 28 28 Validity code:
 Towing dir: 360° Wire out: 150 m Speed: 32 kn*10
 Sorted: 30 Kg Total catch: 162.10 CATCH/HOUR: 324.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	162.00	1160	49.97	502
Loligo plei	54.00	2250	16.66	503
Opisthonema oglinum	18.00	430	5.55	
Cynoscion learchus	15.00	16	4.63	
Engraulis eurystole	13.00	2280	4.01	504
Anchoa lyolepis	11.00	1410	3.39	505
Sardinella aurita	9.00	270	2.78	
Sphyræna guachancho	9.00	16	2.78	
Eucinostomus argenteus	8.00	230	2.47	
Sphyræna picudilla	8.00	100	2.47	
Orthopristis ruber	3.00	10	0.93	
Paralichthys tropicus	3.00	10	0.93	
Diplactrum bivittatum	2.50	30	0.77	
Dactylopterus volitans	2.00	30	0.62	
Upeneus parvus	1.50	60	0.46	
Prionotus punctatus	1.50	40	0.46	
Trachinotus carolinus	1.20	2	0.37	
Selene spixii	1.00	10	0.31	
Saurida normani	0.50	30	0.15	
Decapterus macarellus	0.50	10	0.15	
Scomber japonicus	0.50	10	0.15	
Total	324.20		100.01	

PROJECT STATION: 550
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7021
 start stop duration
 TIME : 08:10 08:40 30 (min) Purpose code: 3
 LOG : 4002.30 4003.70 1.40 Area code : 3
 FDEPTH: 39 41 GearCond.code: 3
 BDEPTH: 39 41 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 30 kn*10
 Sorted: 30 Kg Total catch: 154.10 CATCH/HOUR: 308.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	150.00	3140	48.67	506
Opisthonema oglinum	80.00	1020	25.96	507
Sardinella aurita	53.00	890	17.20	508
Scomberomorus cavalla	9.00	2	2.92	
Loligo plei	6.00	180	1.95	
Selene spixii	3.00	130	0.97	
Priacanthus arenatus	2.50	70	0.81	
Pomatomus saltatrix	1.50	10	0.49	
Sarda sarda	1.20	2	0.39	
Scomber japonicus	1.00	10	0.32	
Selar crumenophthalmus	1.00	10	0.32	
Total	308.20		100.00	

PROJECT STATION: 551
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7030
 start stop duration
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 4010.40 4011.90 1.50 Area code : 3
 FDEPTH: 40 40 GearCond.code: 3
 BDEPTH: 40 40 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 30 kn*10
 Sorted: 55 Kg Total catch: 193.00 CATCH/HOUR: 307.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	223.60	3360	57.69	509
Pepilus paru	77.00	232	19.87	510
Sphyræna guachancho	46.20	78	11.92	
Loligo plei	19.60	1002	5.06	511
Trichiurus lepturus	6.40	8	1.65	
Sphyræna picudilla	5.60	56	1.44	
Loligo pealei	2.80	162	0.72	
Micropogonias furnieri	2.20	2	0.57	
Synodus foetens	2.10	8	0.54	
Trachurus lathami	1.00	42	0.26	
Scomber japonicus	0.70	14	0.18	
Selene spixii	0.40	8	0.10	
Total	307.60		100.00	

PROJECT STATION: 552
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1141 Long W 7041
 start stop duration
 TIME : 11:10 11:40 30 (min) Purpose code: 3
 LOG : 4021.80 4023.20 1.40 Area code : 3
 FDEPTH: 34 37 GearCond.code: 3
 BDEPTH: 34 37 Validity code:
 Towing dir: 360° Wire out: 200 m Speed: 30 kn*10
 Sorted: 57 Kg Total catch: 231.70 CATCH/HOUR: 463.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	399.20	3616	86.15	512
Pepilus paru	28.80	80	6.21	
Loligo pealei	24.00	1656	5.18	513
Scomberomorus cavalla	5.00	8	1.08	
Lutjanus synagris	3.60	4	0.78	
Sphyræna guachancho	1.80	2	0.39	
Priacanthus arenatus	1.00	2	0.22	
Total	463.40		100.01	

PROJECT STATION: 553
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1149 Long W 7040
 start stop duration
 TIME : 12:32 13:02 30 (min) Purpose code: 3
 LOG : 4030.30 4031.70 1.40 Area code : 3
 FDEPTH: 48 49 GearCond.code: 3
 BDEPTH: 48 49 Validity code:
 Towing dir: 87° Wire out: 250 m Speed: 30 kn*10
 Sorted: 57 Kg Total catch: 714.70 CATCH/HOUR: 1429.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	987.40	11670	69.08	514
Pepilus paru	215.00	1826	15.04	515
Chloroscombrus chrysurus	92.50	1450	6.47	516
Selene spixii	35.00	1050	2.45	517
Sardinella aurita	25.00	350	1.75	
Sphyræna picudilla	23.60	200	1.65	
Synodus poeyi	17.40	100	1.22	
Loligo plei	13.60	476	0.95	
Loligo pealei	10.00	326	0.70	
Priacanthus arenatus	5.00	26	0.35	
Lutjanus synagris	4.00	14	0.28	
Lutjanus purpureus	0.50	2	0.03	
Sarda sarda	0.20	2	0.01	
Pennaeus brasiliensis	0.20	2	0.01	
Pennaeus notialis	0.00	2		
Trachurus lathami	0.00	26		
Total	1429.40		99.99	

PROJECT STATION: 554
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1149 Long W 7030
 start stop duration
 TIME : 13:57 14:27 30 (min) Purpose code: 3
 LOG : 4039.00 4040.70 1.70 Area code : 3
 FDEPTH: 50 50 GearCond. code:
 BDEPTH: 50 50 Validity code:
 Towing dir: 90° Wire out: 250 m Speed: 34 kn*10
 Sorted: 30 Kg Total catch: 425.60 CATCH/HOUR: 851.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyræna picudilla	286.00	2710	33.60	519
Sardinella aurita	156.00	2886	18.33	520
Trachurus lathami	122.20	5576	14.36	521
Trichurus lepturus	65.00	494	7.64	
Lutjanus synagris	50.00	126	5.87	518
Pomatomus saltatrix	39.00	234	4.58	
Chloroscombrus chrysurus	26.00	312	3.05	
Scomber japonicus	23.40	494	2.75	
Opisthonema oglinum	20.00	78	2.44	
Lutjanus purpureus	13.20	2	1.55	
Loligo plei	10.40	104	1.22	
Haemulon steindachneri	10.40	156	1.22	
Rhomboplites aurorubens	10.40	52	1.22	
Lutjanus purpureus	10.40	70	1.22	
Lutjanus analis	6.00	2	0.70	
Loligo plei	1.30	156	0.15	
Trichopsetta ventralis	0.40	2	0.05	
Penaeus brasiliensis	0.20	4	0.02	
Penaeus notialis	0.10	2	0.01	
Total	851.20		99.98	

PROJECT STATION: 555
 DATE: 13/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1148 Long W 7023
 start stop duration
 TIME : 15:30 16:00 30 (min) Purpose code: 3
 LOG : 4047.40 4049.00 1.60 Area code : 3
 FDEPTH: 44 41 GearCond. code:
 BDEPTH: 44 41 Validity code:
 Towing dir: 94° Wire out: 250 m Speed: 32 kn*10
 Sorted: 33 Kg Total catch: 232.30 CATCH/HOUR: 464.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	182.00	8238	39.17	
Sardinella aurita	119.00	2066	25.61	
Scomber japonicus	42.00	756	9.04	
Sphyræna picudilla	26.60	210	5.73	
Loligo plei	25.20	252	5.42	
Loligo pealei	16.00	196	3.62	
Chloroscombrus chrysurus	14.00	56	3.01	
Opisthonema oglinum	9.80	56	2.11	
Microgobius furnieri	6.00	4	1.29	
Priacanthus arenatus	5.60	42	1.21	
Selene spixii	5.60	70	1.21	
Synodus foetens	5.60	20	1.21	
Fistularia petimba	1.40	14	0.30	
Anchoa lyolepis	1.40	56	0.30	
Diplectrum bivittatum	1.40	14	0.30	
Haemulon aurolineatum	1.40	14	0.30	
Orthopristis ruber	0.80	2	0.17	
Total	464.60		100.00	

PROJECT STATION: 556
 DATE: 14/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1156 Long W 7023
 start stop duration
 TIME : 17:20 17:53 33 (min) Purpose code: 3
 LOG : 4080.20 4081.80 1.60 Area code : 3
 FDEPTH: 41 49 GearCond. code:
 BDEPTH: 41 49 Validity code:
 Towing dir: 293° Wire out: 200 m Speed: 32 kn*10
 Sorted: 28 Kg Total catch: 28.10 CATCH/HOUR: 51.09

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa lyolepis	20.18	1816	39.50	522
Loligo plei	9.09	196	17.79	523
Synodus foetens	4.00	22	7.03	
Peprilus paru	3.64	7	7.12	
Orthopristis ruber	2.73	11	5.34	
Sphyræna picudilla	2.73	24	5.34	
Priacanthus arenatus	1.82	15	3.56	
Selar crumenophthalmus	1.82	15	3.56	
Loligo pealei	1.27	11	2.49	
Scomber japonicus	0.91	18	1.78	
Lagodon rhomboides	0.73	4	1.43	
Paralichthys tropicus	0.73	2	1.43	
Engraulis eurystole	0.45	42	0.88	
Chloroscombrus chrysurus	0.36	2	0.70	
Etruscanus tores	0.27	16	0.53	
Eucinostomus argenteus	0.18	11	0.35	
Penaeus brasiliensis	0.09	4	0.18	
Upeneus parvus	0.09	4	0.18	
Total	51.09		99.99	

PROJECT STATION: 557
 DATE: 14/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1200 Long W 7031
 start stop duration
 TIME : 18:50 19:20 30 (min) Purpose code: 3
 LOG : 4088.90 4090.50 1.60 Area code : 3
 FDEPTH: 56 56 GearCond. code:
 BDEPTH: 56 56 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: 30 kn*10
 Sorted: 46 Kg Total catch: 119.10 CATCH/HOUR: 238.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyræna picudilla	72.60	560	30.56	524
Priacanthus arenatus	44.00	168	18.47	525
Lutjanus analis	29.60	6	12.43	
Haemulon steindachneri	17.60	112	7.39	526
Trachurus lathami	11.60	560	4.87	
Lutjanus synagris	10.60	18	4.45	
Lutjanus purpureus	8.80	2	3.69	
Rhomboplites aurorubens	7.60	136	3.19	
Sphyræna guachancho	6.00	8	2.52	
Synodus foetens	5.60	40	2.35	
Pagrus pagrus	3.60	8	1.51	
Scomberomorus cavalla	3.60	8	1.51	
Peprilus paru	3.60	8	1.51	
Chaetodipterus faber	2.80	2	1.18	
Loligo plei	2.40	16	1.01	
Ocyurus chrysurus	1.80	2	0.76	
Selar crumenophthalmus	1.60	20	0.67	
Serranus dewegeri	1.40	4	0.59	
Pomatomus saltatrix	1.00	4	0.42	
Scomber japonicus	0.60	20	0.25	
Penaeus brasiliensis	0.40	4	0.17	
Upeneus parvus	0.40	36	0.17	
Trichurus lepturus	0.40	12	0.17	
Penaeus notialis	0.20	4	0.08	
Haemulon boschmae	0.20	8	0.08	
BOTHIDAE	0.00	4		
Spherooides sp	0.00	0		
Prionotus stearnsi	0.00	4		
Total	238.20		100.00	

PROJECT STATION: 558
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7114
 start stop duration
 TIME : 01:20 01:50 30 (min) Purpose code: 3
 LOG : 4133.10 4134.40 1.30 Area code : 3
 FDEPTH: 17 16 GearCond. code:
 BDEPTH: 17 16 Validity code:
 Towing dir: 30° Wire out: 100 m Speed: 25 kn*10
 Sorted: 64 Kg Total catch: 64.30 CATCH/HOUR: 128.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dasyatis guttata	56.00	14	43.55	
Microgobius furnieri	20.60	76	16.02	527
Shrimps, small, non comm.	7.20	2456	5.60	
Xiphopenaeus kroyeri	6.00	40	4.67	
Opisthonema oglinum	4.80	666	3.73	
Lolliguncula sp	3.60	378	2.80	
Anchoa sp	3.60	2362	2.80	
Chirocentrodon bleekeri	3.60	614	2.80	
Lepophidium profundorum	2.40	14	1.87	
Synodus poeyi	2.40	28	1.87	
Cynoscion sp	2.40	24	1.87	
Chloroscombrus chrysurus	2.40	240	1.87	
Eucinostomus argenteus	2.40	86	1.87	
Lutjanus synagris	2.40	6	1.87	
Prionotus punctatus	1.20	56	0.93	
Porichthys sp	1.20	226	0.93	
Ctenosciaena gracilicirrus	1.20	312	0.93	
Scomberomorus regalis	1.20	2	0.93	
Centroponus undecimalis	0.80	2	0.62	
Cynoscion jamaicensis	0.80	2	0.62	
RHINOCHYTIDAE	0.80	2	0.62	
Eucinostomus gula	0.60	56	0.47	
Spherooides testudineus	0.60	56	0.47	
Penaeus notialis	0.20	8	0.16	
Penaeus schmitti	0.20	4	0.16	
Haemulon sp	0.00	2		
Total	128.60		100.03	

PROJECT STATION: 559
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7113
 start stop duration
 TIME : 03:18 03:48 30 (min) Purpose code: 3
 LOG : 4147.20 4148.50 1.30 Area code : 3
 FDEPTH: 11 12 GearCond. code:
 BDEPTH: 11 12 Validity code:
 Towing dir: 90° Wire out: 75 m Speed: 30 kn*10
 Sorted: 56 Kg Total catch: 55.65 CATCH/HOUR: 111.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chirocentrodon bleekeri	23.20	372	20.84	
Trichurus lepturus	19.60	96	17.61	528
Cynoscion virescens	7.40	22	6.65	
Microgobius furnieri	7.20	44	6.47	
Scomberomorus regalis	6.60	8	5.93	
Dasyatis guttata	6.00	2	5.39	
Pellona harroweri	5.80	1276	5.21	
Bagre marinus	5.80	10	5.21	
Ctenosciaena gracilicirrus	3.40	600	3.05	
Bagre marinus	3.40	3	3.05	
Anchoa sp	2.80	112	2.52	
Pomacanthus arcuatus	2.60	2	2.34	
Eucinostomus gula	2.20	22	1.98	
Cynoscion jamaicensis	2.20	14	1.98	
Selene spixii	2.20	34	1.98	
Porichthys sp	1.80	96	1.62	
Larimus breviceps	1.60	6	1.44	
Lycengraulis grossidens	1.20	24	1.08	
SCIAENIDAE	1.00	20	0.90	
Lolliguncula sp	1.00	280	0.90	
Penaeus schmitti	1.00	18	0.90	
Bagre marinus	0.60	12	0.54	
Selene setipinnis	0.60	132	0.54	
Opisthonema oglinum	0.60	2	0.54	
Peprilus paru	0.60	4	0.54	
Penaeus notialis	0.40	28	0.36	
Chloroscombrus chrysurus	0.30	2	0.27	
Haemulon steindachneri	0.20	4	0.18	
Total	111.30		100.02	

PROJECT STATION: 560
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1200 Long W 7053
 TIME : 06:07 start stop duration Purpose code: 3
 LOG : 4159.00 4160.50 1.50 Area code : 3
 FDEPTH: 53 55 GearCond. code:
 BDEPTH: 53 55 Validity code:
 Towing dir: 70° Wire out: 250 m Speed: 30 kn*10

Sorted: 32 Kg Total catch: 31.65 CATCH/HOUR: 63.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Scomberomorus cavalla	36.00 78	56.87	529
Trichurus lepturus	6.00 174	10.74	
Rhizoprionodon lalandii	3.00 2	6.00	
Loligo plei	3.00 252	6.00	530
Cynoscion leirarchus	1.80 2	2.84	
Engraulis eurystole	1.60 244	2.53	
Anchoa sp	1.40 264	2.21	
Synodus poeyi	1.20 98	1.90	
Opisthonema oglinum	1.20 40	1.90	
Lolliguncula brovis	0.80 66	1.26	
Sphyræna picudilla	0.80 12	1.26	
Chloroscombrus chrysurus	0.80 6	1.26	
Lagocephalus laevigatus	0.70 2	1.11	
Synodus foetens	0.60 6	0.95	
Trachurus lathami	0.40 10	0.63	
Pomadasys corvinaeformis	0.30 4	0.47	
Diapterus rhombus	0.30 4	0.47	
Priacanthus arenatus	0.20 2	0.32	
Eucinostomus argenteus	0.20 2	0.32	
Selene spixii	0.20 6	0.32	
Upeneus parvus	0.20 6	0.32	
Lycengraulis grossidens	0.10 2	0.16	
Penaeus notialis	0.00 2		
Scomber japonicus	0.00 2		
Solar crumenophthalmus	0.00 2		
Total	63.30	99.99	

PROJECT STATION: 563
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1212 Long W 7041
 TIME : 13:15 start stop duration Purpose code: 3
 LOG : 4216.40 4218.00 1.60 Area code : 3
 FDEPTH: 65 57 GearCond. code:
 BDEPTH: 65 57 Validity code:
 Towing dir: 273° Wire out: 300 m Speed: 35 kn*10

Sorted: 24 Kg Total catch: 78.32 CATCH/HOUR: 156.64

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Priacanthus arenatus	65.00 1256	41.50	536
Lutjanus analis	18.00 4	11.49	
Chloroscombrus chrysurus	10.00 90	6.38	537
Pristipomoides macrophthalmus	10.00 146	6.38	
Trachurus lathami	7.50 430	4.79	
Rhomboplites aurorubens	6.00 54	4.34	535
Lutjanus synagris	6.00 14	4.21	
Synodus poeyi	6.00 46	3.83	
Loligo plei	5.00 46	3.19	
Eucinostomus argenteus	4.00 106	2.55	
Sphyræna picudilla	3.50 26	2.23	
Lagocephalus laevigatus	3.00 10	1.92	
Pagrus pagrus	3.00 6	1.92	
Etrumeus teres	1.74 156	1.11	
Decapterus macarellus	1.50 170	0.96	538
Selar crumenophthalmus	1.50 20	0.96	
Decapterus punctatus	1.00 60	0.64	
Fistularia petimba	1.00 10	0.64	
Scomber japonicus	1.00 20	0.64	
Anchoa lyolepis	0.50 26	0.32	
Upeneus parvus	0.00 10		
Total	156.64	100.00	

PROJECT STATION: 561
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1200 Long W 7041
 TIME : 07:52 start stop duration Purpose code: 3
 LOG : 4171.60 4173.20 1.60 Area code : 3
 FDEPTH: 59 59 GearCond. code:
 BDEPTH: 59 59 Validity code:
 Towing dir: 115° Wire out: 300 m Speed: 30 kn*10

Sorted: 48 Kg Total catch: 47.30 CATCH/HOUR: 95.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Selar crumenophthalmus	38.60 598	40.29	531
Trichurus lepturus	32.00 500	33.40	
Synodus foetens	5.20 48	5.43	
Synodus poeyi	3.20 136	3.34	
Sphyræna picudilla	3.00 28	3.13	
Loligo plei	2.40 200	2.51	
Scomber japonicus	1.00 28	1.08	
Bairdiella sp	1.00 82	1.07	
Loligo plei	1.40 36	1.46	
Trachurus lathami	1.00 56	1.06	
Lagocephalus laevigatus	0.80 6	0.84	
Upeneus parvus	0.80 72	0.84	
Pagrus pagrus	0.80 2	0.84	
Penaeus notialis	0.60 14	0.63	
Lutjanus purpureus	0.50 2	0.52	
Priacanthus arenatus	0.50 6	0.52	
Chloroscombrus chrysurus	0.40 4	0.42	
Otonoscoena gracilicirrus	0.30 4	0.31	
Etrumeus teres	0.20 24	0.21	
Opisthonema oglinum	0.20 2	0.21	
Selene spixii	0.10 2	0.10	
Pristipomoides macrophthalmus	0.00 2		
Diplectrum bivittatum	0.00 4		
Total	95.00	100.01	

PROJECT STATION: 564
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1213 Long W 7054
 TIME : 15:03 start stop duration Purpose code: 3
 LOG : 4228.60 4229.70 1.10 Area code : 3
 FDEPTH: 53 51 GearCond. code:
 BDEPTH: 53 51 Validity code:
 Towing dir: 273° Wire out: 250 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 293.90 CATCH/HOUR: 801.55

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	349.09 7819	43.65	541
Lutjanus analis	70.91 19	8.85	
Rhomboplites aurorubens	65.45 201	8.17	540
Lutjanus synagris	60.00 112	7.49	539
Sphyræna picudilla	43.64 109	5.44	
Priacanthus arenatus	32.73 175	4.08	
Sardinella aurita	26.18 1942	3.27	542
Synodus poeyi	26.18 262	3.27	
Lutjanus purpureus	13.64 55	1.70	
Eucinostomus argenteus	10.91 327	1.36	
Haemulon steindachneri	10.91 98	1.36	
Upeneus parvus	10.91 1353	1.36	
Decapterus punctatus	10.91 720	1.36	
Decapterus macarellus	10.91 545	1.36	
Trachurus lathami	10.91 633	1.36	
Pagrus pagrus	8.73 22	1.09	
Opisthonema oglinum	8.73 65	1.09	
Scomberomorus cavalla	6.02 14	0.05	
Acanthostracion quadricornis	4.36 22	0.54	
Fistularia petimba	4.36 65	0.54	
Loligo plei	4.36 371	0.54	
Pristipomoides macrophthalmus	3.27 349	0.41	
Scomber japonicus	3.27 44	0.41	
Diplectrum bivittatum	2.18 22	0.27	
Selar crumenophthalmus	2.18 65	0.27	
Total	801.54	99.99	

PROJECT STATION: 562
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1213 Long W 7027
 TIME : 11:10 start stop duration Purpose code: 3
 LOG : 4200.80 4202.40 1.60 Area code : 3
 FDEPTH: 60 59 GearCond. code:
 BDEPTH: 60 59 Validity code:
 Towing dir: 180° Wire out: 300 m Speed: 30 kn*10

Sorted: 25 Kg Total catch: 168.35 CATCH/HOUR: 336.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trachurus lathami	100.00 6000	29.70	534
Sphyræna picudilla	70.00 600	20.79	533
Priacanthus arenatus	25.00 110	7.43	
Lutjanus analis	24.40 4	7.25	
Rhomboplites aurorubens	22.00 160	6.53	532
Eucinostomus argenteus	19.00 320	5.64	
Mycteroperca bonaci	16.20 4	4.81	
Pagrus pagrus	11.00 24	3.27	
Synodus poeyi	10.00 60	2.97	
Lutjanus synagris	9.40 16	2.79	
Haemulon steindachneri	5.00 40	1.49	
Pristipomoides macrophthalmus	5.00 110	1.49	
Loligo plei	4.00 50	1.19	
Upeneus parvus	3.00 140	0.89	
Lagocephalus laevigatus	2.50 10	0.74	
Haemulon maximum	2.40 2	0.71	
Haemulon boschnae	2.00 60	0.59	
Selar crumenophthalmus	2.00 10	0.59	
Paralichthys lethostigma	1.80 2	0.53	
Etrumeus teres	1.00 20	0.30	
Scomber japonicus	1.00 10	0.30	
Lolliguncula sp	0.00 20		
LABRIDAE	0.00 10		
Total	336.70	100.00	

PROJECT STATION: 565
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1214 Long W 7104
 TIME : 16:36 start stop duration Purpose code: 3
 LOG : 4238.70 4240.10 1.40 Area code : 3
 FDEPTH: 30 28 GearCond. code:
 BDEPTH: 30 28 Validity code:
 Towing dir: 360° Wire out: 150 m Speed: 25 kn*10

Sorted: 26 Kg Total catch: 67.10 CATCH/HOUR: 134.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Upeneus parvus	29.20 602	21.76	544
Lutjanus synagris	28.80 60	21.46	543
Eucinostomus argenteus	28.80 426	20.86	545
Priacanthus arenatus	13.60 60	10.13	
Balistes capricornis	13.60 28	10.13	
Calamus penna	5.60 20	4.17	
Balistes vetula	3.20 4	2.38	
Anisotremus virginicus	2.00 4	1.49	
Mustelus canis	2.00 2	1.49	
Orthopristis ruber	1.60 4	1.19	
Fistularia tabacaria	1.60 16	1.19	
Sphyræna picudilla	0.80 4	0.60	
Synodus poeyi	0.80 4	0.60	
Chloroscombrus chrysurus	0.80 16	0.60	
Selar crumenophthalmus	0.80 16	0.60	
Prionotus punctatus	0.60 4	0.45	
Pomacanthus arcuatus	0.40 4	0.30	
Gymnothorax ocellatus	0.40 4	0.30	
Sardinella aurita	0.40 16	0.30	
Total	134.20	100.00	

PROJECT STATION: 566
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1217 Long W 7110
 start stop duration Purpose code: 3
 TIME : 17:46 18:16 30 (min) Area code : 8
 LOG : 4245.60 4246.90 1.30 GearCond.code:
 FDEPTH: 14 15 Validity code:
 DDEPTH: 14 15
 Towing dir: 298* Wire out: 100 m Speed: 30 kn*10
 Sorted: 49 Kg Total catch: 125.20 CATCH/HOUR: 250.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Polydactylus oligodon	30.00	176	11.98
Lutjanus analis	29.60	36	11.82
Trachurus lepturus	25.00	116	9.98
Diapturus rhombus	19.60	70	7.83
Albula vulpes	19.60	70	7.83
Anisotremus virginicus	15.00	36	5.99
Selene spixii	14.60	250	5.83
Conodon nobilis	12.00	36	4.79
Haemulon plumieri	9.60	20	3.83
Centroponus undecimalis	9.60	6	3.83
Balistes vetula	9.60	10	3.83
Elops saurus	9.60	16	3.83
Harengula jaguana	5.00	520	2.00
Panulirus argus	4.00	4	1.84
Scomberomorus brasiliensis	4.00	16	1.84
Pepilus paru	4.00	36	1.84
Microgobias furnieri	3.00	36	1.20
Eucinostomus argenteus	2.60	16	1.04
Priacanthus arenatus	2.60	6	1.04
Chirocentrodon bleekeriannus	2.00	860	0.80
Rhizoprionodon lalandii	2.00	10	0.80
Ocyurus chrysurus	2.00	6	0.80
Opisthonema oglinum	2.00	20	0.80
Selene vomer	2.00	6	0.80
Sphyræna guachancho	2.00	6	0.80
Calamus panna	2.00	10	0.80
Loligo plei	1.00	40	0.40
Ctenosciaena gracilicirrus	1.00	96	0.40
Pomadourus corvinaeformis	1.00	10	0.40
Upeneus parvus	1.00	16	0.40
Chloroscombrus chrysurus	0.80	6	0.32
Cynoscion microlepidotus	0.60	6	0.24
Loligo sp	0.60	10	0.24
Lycongraulis grossidens	0.60	6	0.24
Pellona harroweri	0.60	16	0.24
Total	250.40	100.01	

PROJECT STATION: 567
 DATE: 15/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1231 Long W 7106
 start stop duration Purpose code: 3
 TIME : 19:55 20:25 30 (min) Area code : 3
 LOG : 4261.70 4262.20 0.50 GearCond.code:
 FDEPTH: 70 69 Validity code:
 DDEPTH: 70 69
 Towing dir: 360* Wire out: 350 m Speed: 20 kn*10
 Sorted: 23 Kg Total catch: 125.40 CATCH/HOUR: 250.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pristipomoides macrophthalmus	74.00	5120	29.51
Rhomboplites aurorubens	67.00	270	26.71
Trachurus lathami	15.00	1210	5.90
Lutjanus analis	12.00	2	4.78
Selene phoebe	10.00	010	3.99
Eucinostomus argenteus	9.00	240	3.59
Lutjanus synagris	7.80	14	3.11
Synodus poyei	6.00	550	2.39
Loligo plei	4.00	30	1.59
Upeneus parvus	4.00	150	1.59
Lepophidium profundorum	4.00	1050	1.59
Calamus pennatula	3.00	10	1.20
Hoplunnis sp	3.00	110	1.20
Haemulon steindachneri	3.00	20	1.20
Prionotus punctatus	3.00	10	1.20
Porichthys pauciradiatus	3.00	350	1.20
Prionotus beani	2.50	80	1.00
Penaeus notialis	2.00	130	0.80
Pseudupeneus maculatus	2.00	10	0.80
Priacanthus arenatus	2.00	60	0.80
Uraspis secunda	2.00	2	0.80
Haemulon aurolineatum	1.50	10	0.60
Cyclopesitta chittendeni	1.50	10	0.60
Apogon sp	1.50	200	0.60
Etrumeus teres	1.50	60	0.60
Spherooides sp	1.50	50	0.60
Penaeus brasiliensis	1.00	90	0.40
Dactylopterus volitans	1.00	10	0.40
Scomber japonicus	1.00	30	0.40
Equetus lanceolatus	1.00	10	0.40
Haemulon boschmae	0.50	20	0.20
Diplactrum bivittatum	0.50	20	0.20
Sardinella aurita	0.00	10	
Alutera monoceros	0.00	10	
Total	250.80	100.03	

PROJECT STATION: 568
 DATE: 16/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1234 Long W 7127
 start stop duration Purpose code: 3
 TIME : 00:23 01:23 60 (min) Area code : 5
 LOG : 4302.90 4303.50 0.60 GearCond.code:
 FDEPTH: 455 451 Validity code:
 DDEPTH: 455 451
 Towing dir: 258* Wire out: 1400 m Speed: 6 kn*10
 Sorted: 22 Kg Total catch: 100.30 CATCH/HOUR: 100.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Synagrops bellus	30.80	502	30.71
Nezumia cyrano	24.00	749	23.93
CRANGONIDAE	12.80	3602	12.76
Plesiopneustes edwardsianus	7.00	273	6.98
Solenocera sp	6.70	179	6.68
Benthodesmus tenuis	6.00	152	5.90
Coelorrhinus caribbaeus	2.80	00	2.79
Miscellaneous fish	2.00	0	1.99
CEMPHILIDAE	2.00	4	1.99
ISOPODS	1.20	4	1.20
Peristedion sp	1.20	20	1.20
Cyrtopsis roseus	1.20	12	1.20
Rossia sp	0.80	4	0.80
MYCTOPHIDAE	0.60	32	0.60
SEPIOLIDAE	0.40	4	0.40
Hoplunnis diomedianus	0.40	20	0.40
Sternoptyx pseudobscura	0.40	24	0.40
Total	100.30	100.01	

PROJECT STATION: 569
 DATE: 16/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1233 Long W 7118
 start stop duration Purpose code: 3
 TIME : 05:55 06:25 30 (min) Area code : 5
 LOG : 4331.40 4332.60 1.20 GearCond.code:
 FDEPTH: 67 66 Validity code:
 DDEPTH: 67 66
 Towing dir: 169* Wire out: 350 m Speed: 30 kn*10
 Sorted: 96 Kg Total catch: 96.40 CATCH/HOUR: 192.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Mycteroperca bonaci	44.00	2	22.82
Lutjanus analis	26.00	6	13.49
Lutjanus purpureus	22.00	12	11.41
Lutjanus synagris	19.00	28	9.85
Priacanthus arenatus	18.00	68	9.34
Trachurus lathami	16.00	1040	8.30
Scomberomorus cavalla	13.00	2	7.16
Rhomboplites aurorubens	9.80	76	5.08
Pristipomoides macrophthalmus	7.80	188	4.05
Calamus panna	6.00	24	3.11
Eucinostomus argenteus	4.00	86	2.07
Lachnolaimus maximus	2.00	2	1.04
Trachurus lepturus	1.80	2	0.93
Loligo plei	0.60	14	0.31
Fistularia tabacaria	0.60	4	0.31
Desaster punctatus	0.40	34	0.21
Upeneus parvus	0.40	34	0.21
Exocoetus volitans	0.30	2	0.16
Scomber japonicus	0.20	10	0.10
Synodus foetens	0.10	2	0.05
Total	192.80	100.00	

PROJECT STATION: 57
 DATE: 16/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1222 Long W 7122
 start stop duration Purpose code: 3
 TIME : 08:30 09:00 30 (min) Area code : 5
 LOG : 4346.90 4347.90 1.00 GearCond.code:
 FDEPTH: 23 24 Validity code:
 DDEPTH: 23 24
 Towing dir: 290* Wire out: 100 m Speed: 20 kn*10
 Sorted: 45 Kg Total catch: 45.05 CATCH/HOUR: 90.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	54.00	524	59.93
Selene spixii	20.00	60	22.20
Aleotis ciliaris	6.00	6	7.33
Opisthonema oglinum	4.40	26	4.88
Lutjanus synagris	2.00	2	2.22
Chaetodipterus faber	1.80	2	2.00
Scomberomorus cavalla	1.30	4	1.44
Total	90.10	100.00	

PROJECT STATION: 57
 DATE: 16/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1232 Long W 7130
 start stop duration Purpose code: 3
 TIME : 10:00 10:30 30 (min) Area code : 5
 LOG : 4355.80 4356.90 1.10 GearCond.code:
 FDEPTH: 68 71 Validity code:
 DDEPTH: 68 71
 Towing dir: 270* Wire out: 350 m Speed: 20 kn*10
 Sorted: 25 Kg Total catch: 94.30 CATCH/HOUR: 188.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus analis	50.20	14	26.62
Trachurus lathami	48.00	3616	25.45
Lutjanus synagris	16.00	22	8.48
Rhomboplites aurorubens	12.00	44	6.36
Scomberomorus cavalla	9.60	16	5.09
Lutjanus purpureus	8.00	2	4.24
Trachurus lepturus	6.00	52	3.10
Scomber japonicus	5.60	204	2.97
Pepilus paru	5.60	12	2.97
Priacanthus arenatus	4.00	12	2.55
Chaetodipterus faber	4.00	4	2.12
Chloroscombrus chrysurus	3.60	16	1.91
Calamus pennatula	3.20	8	1.70
Loligo plei	2.00	52	1.06
Selene spixii	2.00	8	1.06
Upeneus parvus	1.60	24	0.85
Pristipomoides macrophthalmus	1.60	28	0.85
Etrumeus teres	0.80	88	0.42
Fistularia potimba	0.80	4	0.42
Sphyræna picudilla	0.80	4	0.42
Eucinostomus argenteus	0.80	16	0.42
Loligo pealei	0.60	16	0.32
Sardinella aurita	0.40	8	0.21
Syacium microzum	0.40	4	0.21
Opisthonema oglinum	0.20	4	0.11
Total	188.60	99.99	

PROJECT STATION: 57
 DATE: 16/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1231 Long W 7130
 start stop duration Purpose code: 3
 TIME : 11:30 12:00 30 (min) Area code : 5
 LOG : 4364.70 4366.10 1.40 GearCond.code:
 FDEPTH: 65 67 Validity code:
 DDEPTH: 65 67
 Towing dir: 260* Wire out: 350 m Speed: 28 kn*10
 Sorted: 30 Kg Total catch: 255.65 CATCH/HOUR: 511.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sciaenidae juveniles	270.00	21060	52.01
Selene spixii	135.00	4764	26.40
Trachurus lathami	36.00	2304	7.04
Rhizoprionodon porosus	28.00	20	5.48
Trachurus lepturus	16.20	522	3.17
Loligo pealei	14.40	414	2.82
Lagocephalus laevigatus	5.40	18	1.06
Pepilus paru	3.60	18	0.70
Sphyræna picudilla	0.90	10	0.18
Upeneus parvus	0.90	54	0.18
Pristipomoides macrophthalmus	0.90	36	0.18
Total	511.30	100.02	

PROJECT STATION: 573
 DATE: 16/ 6/88 POSITION: Lat N 1230 Long W 7146
 GEAR TYPE: BT No:1
 TIME : 12:55 13:25 30 (min) Purpose code: 3
 LOG : 4372.90 4374.50 1.60 Area code : 5
 FDEPTH: 167 160 GearCond.code: 8
 BDEPTH: 167 160 Validity code: 1
 Towing dir: 241 Wire out: 650 m Speed: 32 kn*10

Sorted: 26 Kg Total catch: 51.80 CATCH/HOUR: 103.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Synodus poeyi	21.20 240	20.46	566
Pristipomoides macrophthalmus	18.00 188	18.15	565
Muticulus canis	18.00 52	17.37	
Peristodion sp	9.20 512	0.88	
Upeneus parvus	8.40 156	8.11	567
Squilla sp	8.00 4	7.72	
Loligo pealei	7.60 572	7.34	
Trichurus lepturus	5.20 32	5.02	
Coelorinchus caribbaeus	4.80 1776	4.63	
Serranus phoebe	0.80 20	0.77	
Prionotus roseus	0.80 8	0.77	
Stellifer sp	0.40 4	0.39	
Ctenoseclaena gracilicirrus	0.40 8	0.39	
Prionotus stearnsi	0.00 8		
Porichthys sp	0.00 4		
Total	103.60	100.00	

PROJECT STATION: 574
 DATE: 16/ 6/88 POSITION: Lat N 1223 Long W 7155
 GEAR TYPE: BT No:1
 TIME : 16:00 16:30 30 (min) Purpose code: 3
 LOG : 4385.90 4387.60 1.70 Area code : 5
 FDEPTH: 43 45 GearCond.code: 8
 BDEPTH: 43 45 Validity code: 1
 Towing dir: 251 Wire out: 200 m Speed: 35 kn*10

Sorted: 15 Kg Total catch: 84.37 CATCH/HOUR: 168.74

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus synagris	64.00 78	37.93	568
Lutjanus analis	16.00 6	9.40	
Rhomboplites aurorubens	14.00 148	8.30	569
Decapterus punctatus	9.00 762	5.33	
Loligo pealei	9.00 262	5.33	
Lutjanus griseus	6.20 4	3.67	
Calamus pennatula	5.00 14	2.96	
Lutjanus purpureus	5.00 4	2.96	
Eucinostomus argenteus	4.50 102	2.67	
Scomber japonicus	4.50 238	2.67	
Decapterus macarollus	4.20 438	2.49	
Sardinella aurita	4.20 330	2.49	
Aluteres monoceros	4.00 4	2.37	
Rhizoprionodon lalandii	3.00 2	1.78	
Haemulon boschmae	3.00 274	1.78	
Calamus ponna	3.00 8	1.78	
Ballistes capricus	3.00 2	1.78	
Scomberomorus cavalla	2.10 4	1.24	
Sphyraena picudilla	0.90 4	0.53	
Haemulon aurolineatum	0.90 12	0.53	
Pristipomoides macrophthalmus	0.74 6	0.44	
Peristodion sp	0.60 48	0.36	
Synodus foetens	0.44 4	0.26	
Fistularia petimba	0.44 4	0.26	
Priacanthus arenatus	0.44 6	0.26	
Upeneus parvus	0.30 18	0.18	
Diplectrum bivittatum	0.14 4	0.08	
Penaeus brasiliensis	0.14 4	0.08	
Synodus poeyi	0.00 4		
Chromis sp.	0.00 4		
Total	168.74	99.99	

PROJECT STATION: 575
 DATE: 16/ 6/88 POSITION: Lat N 1220 Long W 7204
 GEAR TYPE: BT No:1
 TIME : 17:28 17:58 30 (min) Purpose code: 3
 LOG : 4395.70 4397.30 1.60 Area code : 5
 FDEPTH: 58 60 GearCond.code: 8
 BDEPTH: 58 60 Validity code: 1
 Towing dir: 250 Wire out: 300 m Speed: 30 kn*10

Sorted: 25 Kg Total catch: 224.80 CATCH/HOUR: 449.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	112.00 6944	24.91	
Sphyraena picudilla	63.00 392	14.01	
Decapterus macarollus	46.20 4858	10.28	
Lutjanus synagris	44.00 78	9.79	570
Calamus pennatula	33.60 140	7.47	
Haemulon aurolineatum	23.80 532	5.29	
Lutjanus purpureus	20.00 6	4.45	571
Epinephelus niveatus	18.00 2	4.00	
Eucinostomus argenteus	15.40 322	3.43	
Trachurus luttani	14.00 1088	3.11	
Lutjanus analis	14.00 2	3.11	
Priacanthus arenatus	12.60 28	2.80	
Haemulon boschmae	8.40 924	1.87	
Rhomboplites aurorubens	7.00 126	1.56	
Rhomboplites aurorubens	6.40 24	1.42	
Pristipomoides macrophthalmus	3.50 42	0.78	
Fistularia petimba	2.80 56	0.62	
Upeneus parvus	2.80 126	0.62	
Loligo plei	1.40 14	0.31	
Scomber japonicus	0.70 20	0.16	
Synodus foetens	0.00 42		
Diplectrum bivittatum	0.00 14		
Selar crumenophthalmus	0.00 14		
Total	449.60	99.99	

PROJECT STATION: 576
 DATE: 16/ 6/88 POSITION: Lat N 1224 Long W 7207
 GEAR TYPE: BT No:1
 TIME : 21:15 21:25 10 (min) Purpose code: 3
 LOG : 4423.30 4424.00 0.70 Area code : 5
 FDEPTH: 250 260 GearCond.code: 8
 BDEPTH: 250 260 Validity code: 1
 Towing dir: 240 Wire out: 1000 m Speed: 35 kn*10

Sorted: 22 Kg Total catch: 22.35 CATCH/HOUR: 134.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Steindachneria argenta	53.40 2082	39.82	
Antigonia capros	17.40 132	12.98	
Solenocera sp	17.40 1080	12.98	572
Synagrops sp.	7.20 600	5.37	
Miscellaneous fish	5.40 40	4.03	
Pontinus longispinis	4.20 78	3.13	
BOTHIDAE	3.60 450	2.68	
GALATHEIDAE	3.00 240	2.24	
PENAEIDAE	2.40 606	1.79	
Pseudupeneus maculatus	2.40 12	1.79	
Polymixia lowei	2.40 180	1.79	
Plesionika sp	2.40 696	1.79	
Scomber japonicus	2.10 36	1.57	
Peristodion miniatum	2.10 42	1.57	
Lepidopus caudatus	1.80 24	1.34	
Hoplunnis sp	1.80 60	1.34	
Pristipomoides macrophthalmus	1.80 12	1.34	
Etmopterus sp	1.20 30	0.89	
Argentina sp.	0.90 6	0.67	
Loligo pealei	0.60 6	0.45	
Bembrops antistrostris	0.60 6	0.45	
Hildebrandia sp.	0.00 6		
Nealotus tripes	0.00 12		
CYNOGLOSSIDAE	0.00 12		
Coelorinchus sp	0.00 12		
Total	134.10	100.01	

PROJECT STATION: 577
 DATE: 16/ 6/88 POSITION: Lat N 1225 Long W 7204
 GEAR TYPE: BT No:1
 TIME : 22:28 23:28 60 (min) Purpose code: 3
 LOG : 4428.80 4432.20 3.40 Area code : 5
 FDEPTH: 235 268 GearCond.code: 8
 BDEPTH: 235 268 Validity code: 1
 Towing dir: 260 Wire out: 1000 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 126.20 CATCH/HOUR: 126.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Steindachneria argenta	26.80 1513	21.24	
Epinephelus sp	18.60 2	14.74	
Synagrops bellus	14.00 1015	11.09	
Solenocera sp	9.60 768	7.61	
Saurida normani	7.20 12	5.71	
Pontinus longispinis	6.40 76	5.07	
Miscellaneous fish	6.00 40	4.75	
Lepidopus caudatus	5.60 84	4.44	
Illex coindetii	4.00 64	3.17	
Squalus sp	3.20 4	2.54	
Lepopidium profundorum	2.60 88	2.06	
BOTHIDAE	2.40 368	1.90	
Loligo pealei	2.00 24	1.58	
Argentina sp.	2.00 124	1.58	
MORIDAE	2.00 200	1.58	
Nealotus tripes	2.00 32	1.58	
Polymixia lowei	2.00 136	1.58	
PENAEIDAE	2.00 304	1.58	
Hoplunnis sp	1.20 64	0.95	
Trichopsetta ventralis	1.20 4	0.95	
Etmopterus sp	1.20 24	0.95	
Plesionika edwardsii	1.00 148	0.79	
Prionotus stearnsi	0.80 36	0.63	
Peristodion miniatum	0.80 16	0.63	
Dibranchius atlanticus	0.60 80	0.48	
Bembrops sp	0.40 4	0.32	
Coelorinchus caribbaeus	0.40 44	0.32	
Halleutichthys aculeatus	0.20 20	0.16	
Porichthys sp	0.00 8		
Antigonia capros	0.00 8		
Total	126.20	99.98	

PROJECT STATION: 578
 DATE: 17/ 6/88 POSITION: Lat N 1225 Long W 7215
 GEAR TYPE: BT No:1
 TIME : 00:40 01:10 30 (min) Purpose code: 3
 LOG : 4441.10 4442.60 1.50 Area code : 5
 FDEPTH: 311 306 GearCond.code: 8
 BDEPTH: 311 306 Validity code: 1
 Towing dir: 243 Wire out: 1200 m Speed: 30 kn*10

Sorted: 21 Kg Total catch: 72.45 CATCH/HOUR: 144.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Squalus sp	54.00 18	37.27	
Steindachneria argenta	36.00 1260	24.84	
Lepidopus caudatus	16.40 288	11.32	
Coelorinchus caribbaeus	4.80 230	3.31	
Pontinus longispinis	4.00 24	2.76	
Illex coindetii	3.20 40	2.21	
Polymixia lowei	3.20 64	2.21	
Seylichthys sp.	2.80 4	1.93	
Lepopidium profundorum	2.40 92	1.66	
PENAEIDAE	2.20 294	1.52	
Etmopterus sp	2.00 60	1.38	
Argentina sp.	2.00 116	1.38	
Solenocera sp	1.80 88	1.24	
Raja teevani	1.60 4	1.10	
Miscellaneous fish	1.60 34	1.04	
Metanephrops binghami	1.50 36	0.83	
Xenolepichthys dalgleishi	1.50 36	0.83	
BOTHIDAE	1.00 24	0.69	
MORIDAE	1.00 36	0.55	
Cyttopsis roseus	0.80 20	0.55	
Plesionika edwardsii	0.60 72	0.41	
OPHIDIIDAE	0.40 12	0.28	
Bembrops sp	0.40 40	0.28	
Peristodion miniatum	0.20 8	0.14	
Synagrops bellus	0.00 8		
Total	144.90	100.00	

PROJECT STATION: 579
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1228 Long W 7217
 start stop duration
 TIME : 02:25 03:20 55 (min) Purpose code: 3
 LOG : 4449.50 4452.30 2.80 Area code : 5
 FDEPTH: 400 408 GearCond.code:
 BDEPTH: 400 408 Validity code:
 Towing dir: 243° Wire out: 1350 m Speed: 30 kn*10
 Sorted: 24 Kg Total catch: 252.90 CATCH/HOUR: 275.09

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Steindachneria argenta	130.91	1777	47.45
Polymixia lowei	52.36	491	18.98
Coelorinchus caribbaeus	24.00	698	8.70
Lepidion caudatus	21.02	480	7.91
Solenocera sp	12.00	332	4.35
Bombrops sp	8.18	153	2.96
Synagrops bellus	5.45	327	1.98
Argentina sp.	5.45	196	1.98
Peristodion miniatum	4.36	87	1.58
Plasiodon edwardsianus	3.71	122	1.34
ORANOSCOPIIDAE	3.27	11	1.19
Cytophys rosus	2.18	22	0.79
Lepididion profundum	1.09	22	0.40
Xenolepidichthys daigichi	1.09	33	0.40
Hemipterus sp	0.00	22	
Melanostomus macrophothus	0.00	11	
Total	275.07	100.01	

PROJECT STATION: 583
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1153 Long W 7237
 start stop duration
 TIME : 12:16 12:46 30 (min) Purpose code: 3
 LOG : 4516.70 4518.00 1.30 Area code : 5
 FDEPTH: 27 45 GearCond.code:
 BDEPTH: 27 45 Validity code:
 Towing dir: 295° Wire out: 150 m Speed: 30 kn*10
 Sorted: 29 Kg Total catch: 161.20 CATCH/HOUR: 322.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	156.00	7664	40.39
Decapterus punctatus	56.00	4696	17.37
Upeneus parvus	16.50	1280	5.12
Lutjanus griseus	13.00	2	4.03
Loligo plei	10.00	9	3.10
Pomacanthus paru	9.00	1000	2.79
Decapterus macarellus	7.00	440	2.17
Eucinostomus argenteus	6.00	10	1.06
Lactophrys trigonus	6.00	170	1.86
Scomber japonicus	5.50	480	1.71
Selar crumenophthalmus	5.00	10	1.55
Balistes capriscus	4.50	420	1.40
Rhomboplites aurorubens	4.00	2	1.36
Balistes vetula	4.00	10	1.24
Calamus pennatula	3.50	30	1.09
Ocyurus chrysurus	3.20	2	0.99
Priacanthus arenatus	2.00	30	0.62
Diplocterus bivittatum	1.00	10	0.31
Total	322.40	100.00	

PROJECT STATION: 500
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1219 Long W 7218
 start stop duration
 TIME : 05:35 06:10 35 (min) Purpose code: 3
 LOG : 4463.00 4464.70 1.70 Area code : 5
 FDEPTH: 70 69 GearCond.code:
 BDEPTH: 70 69 Validity code:
 Towing dir: 200° Wire out: 350 m Speed: 35 kn*10
 Sorted: 21 Kg Total catch: 179.20 CATCH/HOUR: 307.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	61.71	782	20.09
Mycteroperca bonaci	56.57	3	18.41
Haemulon aurolineatum	55.54	1152	18.00
Selar crumenophthalmus	46.29	473	15.07
Sardinella aurita	19.54	617	6.36
Lutjanus analis	13.71	5	4.46
Decapterus macarellus	10.29	998	3.35
Lachnolaimus maximus	7.20	5	2.34
Lutjanus purpureus	5.66	2	1.84
Pomacanthus paru	5.14	3	1.67
Scomber japonicus	4.11	144	1.34
Mullidichthys martinicus	4.11	93	1.34
Haemulon boschmae	3.09	226	1.01
Calamus pennatula	3.09	31	1.01
Upeneus parvus	3.09	103	1.01
Balistes vetula	2.57	2	0.84
Mustelus canis	2.40	2	0.78
Eucinostomus argenteus	2.06	62	0.67
Trachurus lathami	0.51	51	0.17
Pseudupeneus maculatus	0.51	10	0.17
Total	307.19	100.01	

PROJECT STATION: 504
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1158 Long W 7245
 start stop duration
 TIME : 14:06 14:36 30 (min) Purpose code: 3
 LOG : 4529.00 4530.90 1.10 Area code : 5
 FDEPTH: 69 73 GearCond.code:
 BDEPTH: 69 73 Validity code:
 Towing dir: 295° Wire out: 350 m Speed: 15 kn*10
 Sorted: 30 Kg Total catch: 275.42 CATCH/HOUR: 550.84

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Decapterus tabl	164.80	816	29.92
Sardinella aurita	88.00	5590	15.98
Haemulon boschmae	88.00	6160	15.98
Rhomboplites aurorubens	40.64	1952	7.38
Decapterus macarellus	33.60	1886	6.10
Calamus pennatula	27.20	96	4.94
Lutjanus analis	24.00	6	4.36
Lachnolaimus maximus	17.00	8	3.08
Upeneus parvus	16.00	760	2.90
Epinephelus sp	13.80	2	2.51
Pomacanthus paru	9.00	4	1.63
Haemulon aurolineatum	6.40	112	1.16
Acanthostracion quadricornis	6.40	16	1.16
Balistes vetula	6.40	2	1.16
Eucinostomus argenteus	3.20	32	0.50
Diplocterus bivittatum	2.40	48	0.44
Serranus phoebe	2.40	48	0.44
Fistularia petimba	1.60	16	0.29
Total	550.84	100.02	

PROJECT STATION: 581
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1206 Long W 7219
 start stop duration
 TIME : 07:40 08:10 30 (min) Purpose code: 3
 LOG : 4478.00 4480.40 1.60 Area code : 5
 FDEPTH: 41 48 GearCond.code:
 BDEPTH: 41 48 Validity code:
 Towing dir: 276° Wire out: 200 m Speed: 30 kn*10
 Sorted: 62 Kg Total catch: 804.50 CATCH/HOUR: 1609.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	1282.60	95026	79.71
Decapterus macarellus	227.60	24700	14.15
Lutjanus analis	33.60	6	2.09
Upeneus parvus	25.00	2600	1.55
Eucinostomus argenteus	16.20	800	1.01
Lutjanus synagris	14.00	30	0.87
Priacanthus arenatus	10.00	76	0.62
Total	1609.00	100.00	

PROJECT STATION: 585
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7250
 start stop duration
 TIME : 16:20 16:50 30 (min) Purpose code: 3
 LOG : 4547.80 4549.40 1.60 Area code : 5
 FDEPTH: 33 33 GearCond.code:
 BDEPTH: 33 33 Validity code:
 Towing dir: 250° Wire out: 150 m Speed: 32 kn*10
 Sorted: 51 Kg Total catch: 51.15 CATCH/HOUR: 102.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Balistes capriscus	65.00	90	63.54
Calamus pennatula	13.00	132	12.71
OSTRACIIDAE	7.20	14	7.04
Acanthostracion quadricornis	4.60	20	4.50
Priacanthus arenatus	4.20	34	4.11
Fistularia tabacaria	2.20	8	2.15
Rhomboplites aurorubens	2.00	20	1.96
Pseudupeneus maculatus	1.00	12	0.98
Holocentrus adscensionis	1.00	8	0.98
Sphyræna plicudilla	1.00	4	0.98
Diodon sp.	0.80	4	0.78
Fistularia petimba	0.30	2	0.29
Total	102.30	100.02	

PROJECT STATION: 502
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1207 Long W 7231
 start stop duration
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 4492.00 4493.80 1.80 Area code : 5
 FDEPTH: 65 68 GearCond.code:
 BDEPTH: 65 68 Validity code:
 Towing dir: 276° Wire out: 350 m Speed: 35 kn*10
 Sorted: 24 Kg Total catch: 244.70 CATCH/HOUR: 489.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	88.00	1820	17.98
Decapterus macarellus	88.00	11520	17.98
Lutjanus synagris	78.00	160	15.94
Sardinella aurita	66.00	2480	13.49
Lutjanus analis	48.00	10	9.81
Calamus pennatula	20.00	200	5.72
Mycteroperca cidi	24.20	4	4.94
Epinephelus niveatus	19.20	2	3.92
Decapterus punctatus	14.00	200	2.86
Upeneus parvus	10.00	1160	2.04
Haemulon aurolineatum	5.00	1400	1.19
Panulirus argus	5.00	2	1.02
Haemulon boschmae	4.20	5400	0.86
Scomber japonicus	4.00	40	0.82
Pomacanthus paru	3.00	2	0.61
Mullidichthys martinicus	2.00	100	0.41
Pseudupeneus maculatus	2.00	40	0.41
Eucinostomus argenteus	0.00	40	
Total	489.40	100.00	

PROJECT STATION: 501
 DATE: 17/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1147 Long W 7310
 start stop duration
 TIME : 17:45 18:15 30 (min) Purpose code: 3
 LOG : 4556.80 4558.50 1.70 Area code : 5
 FDEPTH: 60 64 GearCond.code:
 BDEPTH: 60 64 Validity code:
 Towing dir: 255° Wire out: 300 m Speed: 32 kn*10
 Sorted: 20 Kg Total catch: 284.90 CATCH/HOUR: 569.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	244.80	10512	42.96
Decapterus macarellus	176.00	16800	30.89
Lutjanus purpureus	45.00	10	7.90
Lutjanus analis	40.00	12	7.02
Calamus pennatula	19.20	48	3.37
Lachnolaimus maximus	12.80	4	2.25
Rhomboplites aurorubens	9.60	1072	1.68
Pomacanthus arcuatus	9.40	6	1.65
Pomacanthus paru	7.20	4	1.26
Fistularia petimba	3.20	16	0.56
Seriola rivoliana	2.60	4	0.46
Total	569.80	100.00	

PROJECT STATION: 507
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1142 Long W 7301
 start stop duration
 TIME : 05:32 06:02 30 (min) Purpose code: 3
 LOG : 4626.30 4627.60 1.30 Area code : 5
 FDEPTH: 23 22 GearCond.code:
 BDEPTH: 23 22 Validity code:
 Towing dir: 248° Wire out: 100 m Speed: 30 kn*10
 Sorted: 42 Kg Total catch: 95.70 CATCH/HOUR: 191.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Balistes capricus	97.60	276	50.99
Aluterus monoceros	23.60	24	12.33
Scomberomorus cavalla	16.00	0	8.36
Lactophrys trigonus	11.60	20	6.06
Sardinella aurita	11.60	176	59.5
Eucinostomus argenteus	9.60	84	5.02
Calamus pennatula	5.60	04	2.93
Caranx crysos	4.80	4	2.51
OSFRACIIDAE	2.80	4	1.46
Rachycentron canadus	2.80	2	1.46
Acanthostracion quadricornis	1.60	2	0.84
Echeneis naucrates	1.20	0	0.63
Priacanthus arenatus	1.20	20	0.63
Rhomboplites aurorubens	0.40	4	0.21
Solar crumenophthalmus	0.40	4	0.21
Diplectrum bivittatum	0.40	4	0.21
Synodus foetens	0.20	4	0.10
Total	191.40		100.01

PROJECT STATION: 591
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7352
 start stop duration
 TIME : 14:47 15:10 23 (min) Purpose code: 3
 LOG : 4696.80 4697.80 1.00 Area code : 5
 FDEPTH: 07 132 GearCond.code:
 BDEPTH: 07 132 Validity code:
 Towing dir: 258° Wire out: 400 m Speed: 25 kn*10
 Sorted: 27 Kg Total catch: 27.15 CATCH/HOUR: 70.83

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Rhomboplites aurorubens	17.22	73	24.31
Lutjanus analis	11.48	10	16.21
Lutjanus synagris	11.48	29	16.21
Eucinostomus argenteus	10.96	222	15.47
Pristipomoides macrophthalmus	5.22	65	7.37
Calamus pennatula	3.91	16	5.52
Trichurus lepturus	2.61	10	3.68
Lutjanus purpureus	2.61	5	3.68
Balistes capricus	1.83	3	2.58
Synodus poeyi	1.30	26	1.84
Holocentrus adscensionis	0.91	3	1.28
Fistularia petimba	0.65	8	0.92
Upeneus parvus	0.65	10	0.92
Total	70.83		99.99

PROJECT STATION: 508
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1138 Long W 7308
 start stop duration
 TIME : 07:04 07:34 30 (min) Purpose code: 3
 LOG : 4635.90 4637.60 1.70 Area code : 5
 FDEPTH: 14 30 GearCond.code:
 BDEPTH: 14 30 Validity code:
 Towing dir: 257° Wire out: 125 m Speed: 32 kn*10
 Sorted: 31 Kg Total catch: 482.50 CATCH/HOUR: 965.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Sardinella aurita	720.00	36768	74.61
Lutjanus analis	70.00	28	7.25
Lachnolaimus maximus	56.00	36	5.80
Balistes capricus	41.40	60	4.29
Pomacanthus arcuatus	26.00	16	2.69
Calamus penna	15.60	0	1.62
Balistes vetula	9.60	144	0.99
Aluterus monoceros	7.20	24	0.75
Lactophrys trigonus	7.20	24	0.75
Rhizoprionodon lalandii	6.40	2	0.66
Scomberomorus cavalla	2.80	2	0.29
Pomacanthus paru	2.80	2	0.29
Total	965.00		99.99

PROJECT STATION: 592
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1122 Long W 7410
 start stop duration
 TIME : 17:10 17:40 30 (min) Purpose code: 3
 LOG : 4716.90 4718.60 1.70 Area code : 5
 FDEPTH: 112 07 GearCond.code:
 BDEPTH: 112 07 Validity code:
 Towing dir: 250° Wire out: 550 m Speed: 35 kn*10
 Sorted: 29 Kg Total catch: 29.25 CATCH/HOUR: 58.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Upeneus parvus	14.80	288	25.30
Lutjanus vivamus	13.00	88	22.22
Pristipomoides macrophthalmus	9.80	94	16.75
Rhomboplites aurorubens	5.80	80	9.91
Lutjanus analis	4.80	2	8.21
Fistularia petimba	4.00	20	6.84
Loligo plei	2.40	900	4.10
Priacanthus arenatus	1.80	24	3.08
Synodus foetens	0.60	6	1.03
Pristigonyx alta	0.50	2	0.85
Holocentrus adscensionis	0.40	4	0.60
Balistes vetula	0.30	2	0.51
Trachurus lathami	0.20	2	0.34
Haemulon aurolineatum	0.10	2	0.17
Serranus phoebe	0.00	2	
Synodus poeyi	0.00	2	
Penaeus notialis	0.00	2	
Loligo pealei	0.00	2	
Total	58.50		99.99

PROJECT STATION: 589
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1128 Long W 7321
 start stop duration
 TIME : 09:45 10:15 30 (min) Purpose code: 3
 LOG : 4659.30 4660.90 1.60 Area code : 5
 FDEPTH: 67 70 GearCond.code:
 BDEPTH: 67 70 Validity code:
 Towing dir: 230° Wire out: 350 m Speed: 30 kn*10
 Sorted: 23 Kg Total catch: 200.70 CATCH/HOUR: 401.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Haemulon aurolineatum	171.20	3824	42.65
Rhomboplites aurorubens	128.00	2272	31.89
Balistes capricus	22.40	32	5.58
Eucinostomus argenteus	14.40	304	3.59
Lutjanus analis	13.60	8	3.39
Lutjanus purpureus	12.20	10	3.04
Calamus pennatula	11.20	80	2.79
Seriola rivoliana	8.00	4	2.19
Haemulon striatum	5.60	112	1.40
Synodus foetens	4.80	32	1.20
Haemulon boschmae	3.20	208	0.80
Pristipomoides macrophthalmus	2.40	16	0.60
Loligo pealei	1.80	18	0.45
Lutjanus synagris	1.00	2	0.25
Upeneus parvus	0.80	16	0.20
Total	401.40		100.02

PROJECT STATION: 593
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 7427
 start stop duration
 TIME : 21:10 21:40 30 (min) Purpose code: 3
 LOG : 4753.80 4755.40 1.60 Area code : 5
 FDEPTH: 88 105 GearCond.code:
 BDEPTH: 88 105 Validity code:
 Towing dir: 260° Wire out: 400 m Speed: 30 kn*10
 Sorted: 50 Kg Total catch: 49.65 CATCH/HOUR: 99.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Lutjanus synagris	28.00	68	28.20
Sciaenops ocellatus	7.40	104	10.67
Pristipomoides macrophthalmus	7.40	1300	7.45
Nealotus tripes	6.40	94	6.45
Penaeus notialis	6.00	218	6.04
Serranus sp	4.80	978	4.83
Shrimps, small, non comm.	3.60		3.60
Trichurus lepturus	2.60	20	2.82
Lepopidium profundorum	2.60	132	2.62
Pristipomoides macrophthalmus	2.60	30	2.62
Saurida normani	2.60	0	2.62
Eucinostomus argenteus	2.60	38	2.62
Hopunnis sp	2.10	116	2.11
Steindachneria argenta	2.10	158	2.11
Porichthys sp	2.10	106	2.11
NYCTOPHIDAE	2.10		2.11
Loligo pealei	1.80	22	1.81
Umbra sp	1.80	4	1.81
Lutjanus vivamus	1.80	8	1.81
Priacanthus punctatus	1.00	4	1.01
Lepopidium profundorum	0.80	8	0.81
Solar crumenophthalmus	0.80	4	0.81
Lutjanus purpureus	0.80	2	0.81
Promethichthys prometheus	0.80	6	0.81
Seriola rivoliana	0.60	2	0.60
Holocentrus adscensionis	0.30	2	0.30
Hildebrandia sp.	0.20	2	0.20
Synodus foetens	0.20	52	0.20
Solenocera sp	0.00	4	
Syacium micrurus	0.00	4	
Rhomboplites aurorubens	0.00	20	
Synagrops bellus	0.00	22	
Total	99.30		99.99

PROJECT STATION: 590
 DATE: 18/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7331
 start stop duration
 TIME : 12:00 12:30 30 (min) Purpose code: 3
 LOG : 4676.70 4678.00 1.30 Area code : 5
 FDEPTH: 61 61 GearCond.code:
 BDEPTH: 61 61 Validity code:
 Towing dir: 250° Wire out: 300 m Speed: 28 kn*10
 Sorted: 25 Kg Total catch: 126.00 CATCH/HOUR: 252.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight	numbers	
Chloroscombrus chrysurus	110.00	3300	43.65
Solene spixii	23.00	988	9.13
Opiethoneva oglinum	21.00	260	8.33
Eucinostomus argenteus	21.00	520	8.33
Priacanthus arenatus	15.00	50	5.95
Rhomboplites aurorubens	12.00	130	4.76
Solar crumenophthalmus	10.00	60	3.97
Lutjanus purpureus	10.00	30	3.97
Lutjanus synagris	7.00	40	2.78
Scomberomorus cavalla	6.50	30	2.58
Caranx hippos	5.50	10	2.18
Sphyræna guachancho	5.00	40	1.98
Sphyræna picudilla	4.00	30	1.59
Pristipomoides macrophthalmus	2.00	20	0.79
Total	252.00		99.99

PROJECT STATION: 594
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 7450
 start stop duration
 TIME : 02:50 03:13 23 (min) Purpose code: 3
 LOG : 4805.00 4806.10 1.10 Area code : 5
 FDEPTH: 244 235 GearCond.code: 5
 DDEPTH: 244 235 Validity code: 1
 Towing dir: 235° Wire out: 950 m Speed: 30 kn*10

Sorted: 25 Kg Total catch: 25.25 CATCH/HOUR: 65.87

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sciaena bathyptatos	46.96	436	71.29	
Nealotus tripos	2.61	5	3.96	
Argentina sp.	2.61	154	3.96	
CYNOGLOSSIDAE	1.96	172	2.98	
MORIDAE	1.03	120	2.70	
Polymixia lowei	1.30	94	1.97	
GEMPYLIDAE	1.04	5	1.58	
Bonallus sp	1.04	3	1.58	
Eleotopus sp	0.91	21	1.38	
Solenocera sp	0.70	42	1.18	
Raja tsovanii	0.70	3	1.18	
Lepophidium profundorum	0.78	10	1.18	
Pontinus longispinis	0.65	3	0.99	
Coelorrhinus caribbaeus	0.52	10	0.79	
Synagrops bellus	0.52	18	0.79	
Bembrops sp	0.52	10	0.79	
Lepidopus caudatus	0.39	3	0.59	
Xiphopenaus kroyeri	0.26	76	0.39	
DOTYDIDAE	0.13	3	0.20	
Metanepiros binghami	0.13	10	0.20	
Panaeus subtilis	0.13	3	0.20	
MYCTOPHIDAE	0.00	5		
Total	65.85		99.96	

PROJECT STATION: 595
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1059 Long W 7506
 start stop duration
 TIME : 06:10 06:40 30 (min) Purpose code: 3
 LOG : 4819.30 4821.00 1.70 Area code : 5
 FDEPTH: 43 45 GearCond.code: 5
 DDEPTH: 43 45 Validity code: 1
 Towing dir: 260° Wire out: 250 m Speed: 32 kn*10

Sorted: 19 Kg Total catch: 19.25 CATCH/HOUR: 38.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argentatus	11.80	292	30.65	614
Priacanthus arenatus	4.80	10	12.47	
Upeneus parvus	3.80	90	9.87	
Solar crumenophthalmus	3.60	24	9.35	
Rhomboplites aurorubens	3.40	36	8.63	
Sardinella aurita	3.00	24	7.79	
Balistes capricus	1.80	8	4.60	
Lutjanus synagris	1.80	4	4.60	
Panaeus notialis	1.20	34	3.12	615
Lutjanus purpureus	1.20	12	3.12	
Synodus foetens	0.80	6	2.08	
Porichthys sp	0.40	16	1.04	
Ogcocephalus sp	0.30	2	0.78	
Prionotus punctatus	0.30	6	0.78	
Diplacrum bivittatum	0.20	12	0.52	
Chlorocentrus chrysura	0.10	2	0.26	
Diaplorus rhombus	0.00	2		
Total	38.50		100.02	

PROJECT STATION: 596
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1101 Long W 7515
 start stop duration
 TIME : 08:00 08:30 30 (min) Purpose code: 3
 LOG : 4833.70 4835.50 1.80 Area code : 5
 FDEPTH: 101 101 GearCond.code: 5
 DDEPTH: 101 101 Validity code: 1
 Towing dir: 260° Wire out: 550 m Speed: 32 kn*10

Sorted: 19 Kg Total catch: 18.80 CATCH/HOUR: 37.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus purpureus	17.00	8	45.21	616
Lutjanus vivanus	4.60	16	12.23	
Pristipomoides macrophthalmus	2.40	88	6.30	
Seriola rivoliana	2.20	2	5.85	
Synodus foetens	2.00	16	5.32	
Priacanthus arenatus	1.60	4	4.26	
Aluterus monoceros	1.60	2	4.26	
Panaeus notialis	1.40	44	3.72	
Loligo plei	1.20	32	3.19	
Porichthys sp	1.20	76	3.19	
Upeneus parvus	1.00	26	2.66	
Calappa sp	0.60	4	1.60	
Epinephelus niveatus	0.40	6	1.06	
Prionotus punctatus	0.20	2	0.53	
Prionotus stearnsi	0.20	24	0.53	
Trichopsetta ventralis	0.00	4		
Narcine brasiliensis	0.00	4		
Solenocera sp	0.00	10		
Serranus sp	0.00	6		
Total	37.60		99.99	

PROJECT STATION: 597
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1053 Long W 7510
 start stop duration
 TIME : 10:25 10:55 30 (min) Purpose code: 3
 LOG : 4840.90 4850.40 1.50 Area code : 5
 FDEPTH: 29 31 GearCond.code: 5
 DDEPTH: 29 31 Validity code: 1
 Towing dir: 240° Wire out: 100 m Speed: 30 kn*10

Sorted: 3 Kg Total catch: 2.90 CATCH/HOUR: 5.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Narcine brasiliensis	3.00	2	51.72	
Eucinostomus argentatus	1.60	36	27.59	
Synodus foetens	0.30	6	5.17	
Syacium micrurus	0.20	2	3.45	
Loligo plei	0.20	20	3.45	
Rhomboplites aurorubens	0.20	2	3.45	
Upeneus parvus	0.20	4	3.45	
Lutjanus purpureus	0.10	2	1.72	
Baloutichthys aculeatus	0.00	6		
Prionotus punctatus	0.00	2		
Trichopsetta ventralis	0.00	6		
Lutjanus synagris	0.00	4		
Total	5.80		100.00	

PROJECT STATION: 598
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1057 Long W 7526
 start stop duration
 TIME : 12:00 12:30 30 (min) Purpose code: 3
 LOG : 4860.00 4861.70 1.70 Area code : 5
 FDEPTH: 47 45 GearCond.code: 5
 DDEPTH: 47 45 Validity code: 1
 Towing dir: 217° Wire out: 250 m Speed: 35 kn*10

Sorted: 37 Kg Total catch: 36.65 CATCH/HOUR: 73.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	15.60	8	21.28	
Seriola rivoliana	12.00	6	16.37	
Haemulon aurolineatum	12.00	356	16.37	
Lutjanus purpureus	11.00	6	15.01	
Lutjanus griseus	9.00	2	12.28	
Rhomboplites aurorubens	5.30	84	7.23	
Rhizoprionodon porosus	3.00	2	4.09	
Mullus auratus	2.20	36	3.00	
Lutjanus buccanella	1.20	14	1.64	
Eucinostomus argentatus	1.00	8	1.36	
Lutjanus vivanus	0.80	6	1.09	
Upeneus parvus	0.20	4	0.27	
Total	73.30		99.99	

PROJECT STATION: 599
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1046 Long W 7529
 start stop duration
 TIME : 14:12 14:42 30 (min) Purpose code: 3
 LOG : 4875.00 4876.80 1.80 Area code : 5
 FDEPTH: 36 34 GearCond.code: 5
 DDEPTH: 36 34 Validity code: 1
 Towing dir: 205° Wire out: 200 m Speed: 35 kn*10

Sorted: 44 Kg Total catch: 44.25 CATCH/HOUR: 88.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	30.60	22	34.50	G17
Lutjanus synagris	17.00	60	19.21	G18
Epinephelus morio	13.00	2	14.69	
Priacanthus arenatus	10.00	32	11.30	
Haemulon aurolineatum	6.00	118	6.78	
Rhomboplites aurorubens	5.00	60	5.65	G19
Eucinostomus argentatus	2.60	60	2.94	
Acanthostracion sp	1.00	2	1.13	
Balistes capricus	1.00	2	1.13	
Synodus poeyi	1.00	4	1.13	
Seriola rivoliana	1.00	8	1.13	
Loligo plei	0.20	70	0.23	
Diplacrum bivittatum	0.10	4	0.11	
Panaeus notialis	0.00	2		
Total	88.50		100.01	

PROJECT STATION: 600
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1037 Long W 7534
 start stop duration
 TIME : 15:55 16:25 30 (min) Purpose code: 3
 LOG : 4807.30 4808.90 1.60 Area code : 5
 FDEPTH: 53 49 GearCond.code: 5
 DDEPTH: 53 49 Validity code: 1
 Towing dir: 210° Wire out: 250 m Speed: 32 kn*10

Sorted: 32 Kg Total catch: 117.76 CATCH/HOUR: 235.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Solar crumenophthalmus	135.10	942	57.36	622
Eucinostomus argentatus	21.00	490	8.92	620
Rhomboplites aurorubens	17.50	260	7.43	621
Lutjanus synagris	14.00	70	5.94	
Upeneus parvus	12.60	224	5.35	623
Lutjanus analis	10.00	2	4.25	
Synodus poeyi	7.00	84	2.97	
Synodus foetens	5.60	56	2.38	
Pristipomoides macrophthalmus	3.50	8	1.49	
Acanthostracion quadricornis	2.80	8	1.19	
Loligo plei	2.10	372	0.89	
Seriola rivoliana	1.74	14	0.74	
Prionotus punctatus	1.40	14	0.59	
Lactophrys trigonus	0.70	8	0.30	
Panaeus notialis	0.48	14	0.20	
Syacium sp.	0.00	8		
Lutjanus vivanus	0.00	8		
Total	235.52		100.00	

PROJECT STATION: 601
 DATE: 19/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 1029 Long W 7539
 start stop duration
 TIME : 18:10 18:27 17 (min) Purpose code: 3
 LOG : 4903.50 4904.30 0.80 Area code : 5
 FDEPTH: 166 174 GearCond.code: 5
 DDEPTH: 166 174 Validity code: 1
 Towing dir: 20° Wire out: 750 m Speed: 25 kn*10

Sorted: 16 Kg Total catch: 15.85 CATCH/HOUR: 55.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	21.18	250	37.86	624
Loligo plei	6.00	1782	10.73	
Saurida normani	6.00	28	10.73	
Raja cyclophora	4.59	4	8.21	
Hemanthias leptus	3.53	4	6.31	
Lepidopus caudatus	2.47	28	4.42	
Mustelus canis	2.47	4	4.42	
Lutjanus synagris	2.47	4	4.42	
Rhomboplites aurorubens	2.47	21	4.42	
Umbra sp	1.76	14	3.15	
HOLOCENPRIDAE	1.06	11	1.89	
Ancylometta sp.	0.71	11	1.27	
Solar crumenophthalmus	0.71	7	1.27	
Plesionika sp	0.35	25	0.63	
Synagrops bellus	0.18	25	0.32	
PENALIDAE	0.00	14		
MYCTOPHIDAE	0.00	815		
Bembrops sp	0.00	7		
Sphaeroides sp	0.00	4		
PARALEPIDIDAE	0.00	7		
Argentina sp.	0.00	14		
Synodus foetens	0.00	25		
Paralichthys sp	0.00	11		
Haemulon striatum	0.00	4		
Etrumeus teres	0.00	4		
Total	55.94		100.05	

DATE: 20/ 6/88 GEAR TYPE: BT No:1 POSITION: Lat N 932 Long W 7616
 start stop duration
 TIME : 08:52 09:22 30 (min) Purpose code: 3
 LOG : 5018.90 5020.20 1.30 Area code : 5
 FDEPTH: 56 61 GearCond.code: 2
 BDEPTH: 66 61 Validity code:
 Towing dir: 90° Wire out: 350 m Speed: 26 kn*10

Sorted: 37 Kg Total catch: 36.95 CATCH/HOUR: 73.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	14.80	68	20.03	625
Loligo plei	12.40	329	16.78	
Scomberomorus cavalla	9.00	2	12.18	
Eucinostomus argentatus	9.00	244	12.18	
Lutjanus analis	5.60	4	7.58	
Rhizoprionodon lalandii	4.40	2	5.95	
Balistes capricus	4.40	14	5.95	
Acanthostracion quadricornis	3.20	2	4.33	
Carcharias limbatus	2.40	2	3.25	
Rhomboplites aurorubens	2.20	40	2.98	
Upeneus parvus	2.00	04	2.71	
Solar crumenophthalmus	1.40	16	1.89	
Lutjanus vivanus	0.80	22	1.08	
Diplectrum bivittatum	0.60	14	0.81	
Priacanthus arenatus	0.60	8	0.81	
Fistularia petimba	0.50	8	0.68	
Balistes vetula	0.40	2	0.54	
Selene spixii	0.10	2	0.14	
Pristipomoides macrophthalmus	0.10	8	0.14	
Antigonia capros	0.00	2		
Synodus poeyi	0.00	2		
Synodus foetens	0.00	2		
Total	73.90		100.01	

PROJECT STATION: 603
 POSITION: Lat N 932 Long W 7605
 DATE: 20/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 09:35 09:40 5 (min) Purpose code: 3
 LOG : 5029.70 5029.90 0.20 Area code : 5
 FDEPTH: 38 39 GearCond.code: 9
 BDEPTH: 38 39 Validity code:
 Towing dir: 350° Wire out: 200 m Speed: 24 kn*10

Sorted: 1 Kg Total catch: 1.20 CATCH/HOUR: 14.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Upeneus parvus	3.00	156	20.83	
Chloroscombrus chrysurus	3.00	84	20.83	
Penaeus notialis	2.40	132	16.67	
Loligo plei	1.20	60	8.33	
Acanthostracion quadricornis	1.20	12	8.33	
Synodus foetens	1.20	12	8.33	
Lepophidium profundum	0.60	12	4.17	
Porichthys pauciradiatus	0.60	156	4.17	
Priacanthus arenatus	0.60	12	4.17	
Rhomboplites aurorubens	0.60	12	4.17	
Loligo plei	0.00	12		
Squilla sp	0.00	12		
Selar crumenophthalmus	0.00	12		
Symphysus sp	0.00	36		
Diplectrum bivittatum	0.00	48		
Synodus poeyi	0.00	48		
Selene spixii	0.00	12		
Total	14.40		100.00	

PROJECT STATION: 604
 POSITION: Lat N 943 Long W 7606
 DATE: 20/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 11:05 11:35 30 (min) Purpose code: 3
 LOG : 5042.10 5043.10 1.00 Area code : 5
 FDEPTH: 71 71 GearCond.code: 2
 BDEPTH: 71 71 Validity code:
 Towing dir: 53° Wire out: 350 m Speed: 20 kn*10

Sorted: 23 Kg Total catch: 22.55 CATCH/HOUR: 45.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhizoprionodon lalandii	15.20	16	33.70	
Eucinostomus argentatus	11.40	368	25.28	626
Loligo plei	4.40	420	9.76	
Rhomboplites aurorubens	3.40	62	7.54	
Trichiurus lepturus	3.40	38	7.54	
Chloroscombrus chrysurus	2.40	40	5.32	
Opisthonema oglinum	1.40	22	3.10	
Lutjanus synagris	0.80	4	1.77	
Scomberomorus brasiliensis	0.60	2	1.33	
Sphyræna guachancho	0.50	2	1.11	
Diplectrum radiale	0.40	20	0.89	
Balistes capricus	0.40	4	0.89	
Upeneus parvus	0.40	24	0.89	
Pristipomoides macrophthalmus	0.10	10	0.22	
Synodus poeyi	0.10	2	0.22	
Penaeus notialis	0.10	6	0.22	
Selene spixii	0.10	2	0.22	
Anchoa lyolepis	0.00	2		
Total	45.10		100.00	

PROJECT STATION: 605
 POSITION: Lat N 951 Long W 7557
 DATE: 20/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 12:54 13:00 6 (min) Purpose code: 3
 LOG : 5055.50 5055.80 0.30 Area code : 5
 FDEPTH: 58 58 GearCond.code: 8
 BDEPTH: 58 58 Validity code: 1
 Towing dir: 230° Wire out: 250 m Speed: 30 kn*10

Sorted: 6 Kg Total catch: 6.40 CATCH/HOUR: 64.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argentatus	17.00	620	26.56	
Lutjanus synagris	11.00	20	17.19	
Upeneus parvus	9.00	820	14.06	
Loligo plei	6.00	900	9.38	
Rhomboplites aurorubens	4.00	40	6.25	
Chloroscombrus chrysurus	4.00	40	6.25	
Lutjanus analis	4.00	10	6.25	
Diplectrum radiale	2.00	90	3.13	
Sphyræna guachancho	2.00	10	3.13	
Calanus penacula	2.00	10	3.13	
Synodus poeyi	1.00	10	1.56	
Pristipomoides macrophthalmus	1.00	70	1.56	
Fistularia petimba	1.00	10	1.56	
BOTHIDAE	0.00	30		
LABRIDAE	0.00	10		
SERRANIDAE	0.00	50		
Selar crumenophthalmus	0.00	10		
Lutjanus purpureus	0.00	10		
Total	64.00		100.01	

PROJECT STATION: 607
 POSITION: Lat N 1003 Long W 7545
 DATE: 21/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 17:28 17:58 30 (min) Purpose code: 3
 LOG : 5074.30 5076.10 1.80 Area code : 5
 FDEPTH: 78 81 GearCond.code: 2
 BDEPTH: 78 81 Validity code:
 Towing dir: 255° Wire out: 400 m Speed: 32 kn*10

Sorted: 19 Kg Total catch: 19.00 CATCH/HOUR: 38.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	13.40	376	35.26	627
Eucinostomus argentatus	9.40	304	24.74	628
Loligo plei	3.20	260	8.42	
Loligo plei	2.40	322	6.32	
Trichiurus lepturus	2.40	0	6.32	
Rhizoprionodon lalandii	1.40	2	3.68	
Lutjanus synagris	1.40	6	3.68	
Balistes capricus	0.80	4	2.11	
Penaeus notialis	0.80	32	2.11	
Diplectrum bivittatum	0.60	20	1.58	
Priacanthus arenatus	0.60	6	1.58	
Sphyræna guachancho	0.40	2	1.05	
Decapterus punctatus	0.40	24	1.05	
Chloroscombrus chrysurus	0.30	4	0.79	
Upeneus parvus	0.20	0	0.53	
Fistularia petimba	0.20	2	0.53	
Pristipomoides macrophthalmus	0.10	0	0.26	
Haemulon striatum	0.00	2		
Selar crumenophthalmus	0.00	2		
Total	38.00		100.01	

PROJECT STATION: 607
 POSITION: Lat N 1107 Long W 7441
 DATE: 21/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 06:34 06:34 0 (min) Purpose code: 3
 LOG : 5100.40 5101.80 1.40 Area code : 5
 FDEPTH: 22 34 GearCond.code: 1
 BDEPTH: 22 34 Validity code:
 Towing dir: 104° Wire out: 100 m Speed: 30 kn*10

Sorted: 22 Kg Total catch: 21.90 CATCH/HOUR: 43.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Balistes capricus	17.40	62	39.73	
Lutjanus synagris	4.40	20	10.05	629
Elops saurus	4.20	6	9.59	
Scomberomorus brasiliensis	3.00	6	6.05	
Alectis ciliaris	2.40	4	5.48	
Selene spixii	2.40	14	5.48	
Chaetodipterus faber	2.00	4	4.57	
Lutjanus purpureus	1.40	2	3.20	
Rhomboplites aurorubens	1.40	6	3.20	
Eucinostomus argentatus	1.40	32	3.20	
Sphyræna guachancho	1.40	4	3.20	
Diapterus rhombeus	1.00	2	2.28	
Caranx crysos	1.00	2	2.28	
Chloroscombrus chrysurus	0.40	4	0.91	
Total	43.80		100.02	

PROJECT STATION: 606
 POSITION: Lat N 1104 Long W 7429
 DATE: 21/ 6/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 07:42 07:55 13 (min) Purpose code: 3
 LOG : 5191.70 5192.40 0.70 Area code : 5
 FDEPTH: 21 22 GearCond.code: 1
 BDEPTH: 21 22 Validity code:
 Towing dir: 53° Wire out: 100 m Speed: 30 kn*10

Sorted: 13 Kg Total catch: 12.75 CATCH/HOUR: 58.85

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	19.38	14	32.93	
Balistes capricus	14.77	51	25.10	
Lutjanus synagris	10.15	9	17.25	
Acanthostracion quadricornis	7.05	14	13.34	
Elops saurus	3.23	5	5.49	
Balistes vetula	3.23	9	5.49	
Selene spixii	0.23	5	0.39	
Haemulon boschmae	0.00	10		
Holocentrus adscensionis	0.00	5		
Total	58.84		99.99	

PROJECT STATION: 609
 POSITION: Lat N 634 Long W 5429
 DATE: 12/ 8/88 GEAR TYPE: BT No:1
 start stop duration
 TIME : 06:00 06:30 30 (min) Purpose code: 3
 LOG : 6723.30 6725.40 1.70 Area code : 1
 FDEPTH: 32 32 GearCond.code: 1
 BDEPTH: 32 32 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 36 kn*10

Sorted: 44 Kg Total catch: 44.00 CATCH/HOUR: 88.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Orthopristis ruber	50.00	248	56.82	1
Lutjanus synagris	10.00	32	11.36	3
Scomberomorus cavalla	7.80	16	8.86	
Eucinostomus argentatus	7.40	278	8.41	2
Loligo plei	2.00	162	2.27	
Cynoscion jamaicensis	1.60	12	1.82	
Diplectrum formosum	1.40	10	1.59	
Sardinella aurita	1.40	40	1.59	
Priacanthus arenatus	1.20	6	1.36	
Selene spixii	1.00	14	1.14	
Caranx crysos	0.80	0	0.91	
Upeneus parvus	0.80	12	0.91	
Chaetodipterus faber	0.80	12	0.91	
Sphyræna picudilla	0.60	4	0.68	
Selar crumenophthalmus	0.60	6	0.68	
Harengula jaguana	0.60	24	0.68	
Pomadoury corvinaeformis	0.40	2	0.45	
Opisthonema oglinum	0.20	6	0.23	
Decapterus macarellus	0.00	2		
Loligo plei	0.00	6		
Prionotus punctatus	0.00	6		
Chloroscombrus chrysurus	0.00	2		
Total	88.60		100.67	

PROJECT STATION: 610
 DATE: 12/ 8/88 POSITION: Lat N 637 Long W 5427
 GEAR TYPE: PT No:2
 start stop duration
 TIME : 07:43 08:13 30 (min) Purpose code: 1
 LOG : 6732.50 6733.70 1.20 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 35 35 Validity code:
 Towing dir: 90° Wire out: 50 m Speed: 29 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

PROJECT STATION: 6
 DATE: 13/ 8/88 POSITION: Lat N 70 Long W 545
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 05:18 05:48 30 (min) Purpose code: 3
 LOG : 6090.80 6091.10 0.30 Area code : 1
 FDEPTH: 55 57 GearCond.code: 1
 BDEPTH: 55 57 Validity code:
 Towing dir: 310° Wire out: 300 m Speed: 14 kn*10
 Sorted: 26 Kg Total catch: 102.90 CATCH/HOUR: 205.80

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Total

SPECIES CATCH/HOUR % OF TOT. C SAMP.N.
 weight numbers
 Total

PROJECT STATION: 611
 DATE: 12/ 8/88 POSITION: Lat N 721 Long W 5430
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 13:40 14:10 30 (min) Purpose code: 3
 LOG : 6770.70 6779.20 0.50 Area code : 1
 FDEPTH: 94 93 GearCond.code: 1
 BDEPTH: 94 93 Validity code:
 Towing dir: 310° Wire out: 500 m Speed: 15 kn*10
 Sorted: 67 Kg Total catch: 67.25 CATCH/HOUR: 134.50

SPECIES CATCH/HOUR % OF TOT. C SAMP.N.
 weight numbers
 Rhizoprionodon porosus 58.00 66 28.18 10
 Rhombolites aurorubens 25.60 230 12.44 11
 Solea spixii 25.00 06 12.15 11
 Scomberomorus cavalla 17.60 20 8.55
 Upeneus parvus 16.60 720 8.07
 Carcharias limbatus 13.00 2 8.32
 Scomberomorus brasiliensis 11.00 40 5.34
 Chloroscombrus chrysurus 7.60 160 3.69
 Sphyrna guachancho 5.00 10 2.43
 Pristigaster macropthalmus 5.00 20G 2.43
 Aluterus monoceros 4.60 6 2.24
 Alectis ciliaris 3.00 10 1.46
 Synodus poeyi 3.00 26 1.46
 Loligo plei 2.60 160 1.26
 Priacanthus arenatus 2.00 20 0.97
 Selar crumenophthalmus 2.00 60 0.97
 Hemicaranx amblyrhynchus 1.60 6 0.78
 Penaeus brasiliensis 1.00 10 0.49
 Sardinella aurita 1.00 20 0.49
 Gymnothorax ocellatus 0.60 6 0.29
 Diploctrum bivittatum 0.00 6
 Haemulon boschmae 0.00 6
 Eucinostomus argenteus 0.00 6
 Decapterus punctatus 0.00 6
 Total 205.80 100.01

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Lutjanus purpureus 70.00 20 57.99 4
 Pristigaster macropthalmus 43.00 572 31.97 5
 Trachurus lathami 5.00 118 4.31 6
 Saurida noronhai 2.20 20 1.64
 Priacanthus arenatus 1.60 8 1.19
 Selar crumenophthalmus 1.60 14 1.19
 Arionomus bondi 0.60 8 0.45
 Upeneus parvus 0.40 10 0.30
 Sardinella aurita 0.40 4 0.30
 Diploctrum formosum 0.30 12 0.22
 Rhombolites aurorubens 0.20 4 0.15
 Haemulon jaguana 0.20 2 0.15
 Eucinostomus argenteus 0.20 6 0.15
 Total 134.50 100.01

PROJECT STATION: 615
 DATE: 13/ 8/88 POSITION: Lat N 719 Long W 5513
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 08:06 08:36 30 (min) Purpose code: 3
 LOG : 6912.60 6913.80 1.20 Area code : 1
 FDEPTH: 110 110 GearCond.code: 8
 BDEPTH: 110 110 Validity code: 9
 Towing dir: 136° Wire out: 500 m Speed: 26 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES CATCH/HOUR % OF TOT. C SAMP.N.
 weight numbers
 N O C A T C H 0.00
 Total

PROJECT STATION: 612
 DATE: 12/ 8/88 POSITION: Lat N 750 Long W 5430
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 18:52 19:52 60 (min) Purpose code: 3
 LOG : 6814.00 6815.80 1.80 Area code : 1
 FDEPTH: 756 782 GearCond.code: 1
 BDEPTH: 756 782 Validity code:
 Towing dir: 260° Wire out: 2000 m Speed: 17 kn*10
 Sorted: 21 Kg Total catch: 101.40 CATCH/HOUR: 101.40

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Nematocarcinus rotundus 49.50 3600 48.82
 MORIDAE 13.50 315 13.31
 Coelorrhinus occa 8.60 86 8.48
 Plesionopus edwardsianus 6.50 81 6.41 7
 GALATHEIDAE 6.30 234 6.21
 Miscellaneous fish 5.90 58 5.82
 R A Y S 5.00 36 4.93
 DIRETMIDAE 2.70 5 2.66
 2.30 59 2.27
 Bathynomus giganteus 1.10 12 1.08
 Bathyporeia viridionis 0.00 5
 Peristadion ecuadorensis 0.00 9
 CRANGONIDAE 0.00 9
 Total 101.40 99.99

PROJECT STATION: 616
 DATE: 13/ 8/88 POSITION: Lat N 725 Long W 5517
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 14:15 15:15 60 (min) Purpose code: 3
 LOG : 6930.40 6932.40 2.00 Area code : 1
 FDEPTH: 710 809 GearCond.code: 1
 BDEPTH: 710 809 Validity code:
 Towing dir: 310° Wire out: 2000 m Speed: 18 kn*10
 Sorted: 68 Kg Total catch: 428.90 CATCH/HOUR: 428.90

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Nematocarcinus rotundus 180.00 27000 41.97 13
 Miscellaneous fish 102.00 23.70 9.79
 Geryon quinquegens 42.00 30 9.09
 Pholidoteuthis adami 39.00 54 9.09
 Plesionopus edwardsianus 20.00 210 4.66 12
 POLYCHETIDAE 12.60 438 2.94
 Glyptocaranus sp 9.60 108G 2.24
 MYCTOPHIDAE 7.20 84 1.68
 Brotula sp. 6.00 84 1.40
 Nezumia cyrano 4.80 108 1.12
 Benthodesmus tenuis 3.00 54 0.70
 Coelorrhinus occa 1.50 18 0.35
 Ornithoteuthis antillarum 1.20 24 0.28
 Total 428.90 100.00

PROJECT STATION: 613
 DATE: 12/ 8/88 POSITION: Lat N 741 Long W 5444
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 22:15 23:15 60 (min) Purpose code: 3
 LOG : 6831.20 6834.40 3.20 Area code : 1
 FDEPTH: 700 720 GearCond.code: 1
 BDEPTH: 700 720 Validity code:
 Towing dir: 193° Wire out: 2000 m Speed: 27 kn*10
 Sorted: 25 Kg Total catch: 121.83 CATCH/HOUR: 121.83

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Nematocarcinus rotundus 47.50 5311 38.99 8
 Miscellaneous fish 23.75 19.49
 Plesionopus edwardsianus 19.70 280 16.17 9
 Nezumia cyrano 7.60 180 6.24
 ISOPODS 5.70 95 4.68
 R A Y S 4.75 38 3.90
 Coelorrhinus sp 4.75 43 3.90
 GALATHEIDAE 3.30 143 2.71
 Coelorrhinus occa 2.85 48 2.34
 Peristadion ecuadorensis 0.95 24 0.78
 Dibranchius atlanticus 0.70 14 0.57
 Glyptocaranus sp 0.20 38 0.16
 Nephropsis sp 0.00 14
 Total 121.75 99.93

PROJECT STATION: 617
 DATE: 13/ 8/88 POSITION: Lat N 712 Long W 5523
 GEAR TYPE: BT No:1
 start stop duration
 TIME : 17:44 18:14 30 (min) Purpose code: 3
 LOG : 6951.30 6953.10 1.80 Area code : 1
 FDEPTH: 83 84 GearCond.code: 1
 BDEPTH: 83 84 Validity code:
 Towing dir: 180° Wire out: 450 m Speed: 38 kn*10
 Sorted: 50 Kg Total catch: 229.60 CATCH/HOUR: 459.20

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Lutjanus purpureus 155.60 42 33.89 14
 Pristigaster macropthalmus 100.20 1590 21.82 15
 Rhombolites aurorubens 76.80 786 16.72 16
 Priacanthus arenatus 32.40 486 7.06
 Upeneus parvus 21.00 336 4.57
 Synodus poeyi 14.40 336 3.14
 Uraspis secunda 7.20 150 1.57
 Scomberomorus cavalla 7.20 12 1.31
 Prionotus stearnsi 6.00 300 1.31
 Mustelus canis 4.80 6 1.05
 Rhizoprionodon porosus 4.80 6 1.05
 Lutjanus vivanus 4.20 6 0.91
 Opisthonema oglinum 4.20 36 0.91
 Trachurus lathami 3.60 114 0.78
 Cynoscion jamaicensis 3.60 12 0.78
 Serranus phoebe 2.40 108 0.52
 Epinephelus niveatus 1.00 6 0.39
 Penaeus brasiliensis 1.00 24 0.39
 Holocentrus adscensionis 1.20 6 0.26
 Total 459.20 100.00

PROJECT STATION: 618
 DATE: 13/ 8/86 GEAR TYPE: BT No:1 POSITION: Lat N 705 Long W 5533
 start stop duration
 TIME : 19:54 20:29 35 (min) Purpose code: 3
 LOG : 6967.50 6969.10 1.60 Area code : 1
 FDEPTH: 71 71 GearCond.code:
 BDEPTH: 71 71 Validity code:
 Towing dir: 299 Wire out: 350 m Speed: 28 kn*10
 Sorted: 27 Kg Total catch: 223.20 CATCH/HOUR: 382.63

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	123.43	2310	32.26	17
Synodus poyei	82.29	247	21.51	
Rhomboplites aurorubens	61.71	521	16.13	18
Upeneus parvus	32.91	795	8.60	
Hoplunnis diomedianus	20.57		5.38	
Selene spixii	9.60	27	2.51	
Lutjanus purpureus	6.86	3	1.79	
Lepophidium profundorum	6.86	535	1.79	
Eucinostomus argenteus	5.49	55	1.43	
Prionotus beani	5.49	233	1.43	
Penaeus brasiliensis	4.00	69	1.25	
Cynoscion jamaicensis	4.11	14	1.07	
Serranus phoebe	4.11	411	1.07	
Diodon hystrix	2.74	14	0.72	
Acanthostracion quadricornis	2.74	55	0.72	
Syacium microrum	2.74	82	0.72	
Opisthonema oglinum	2.06	14	0.54	
Dactylopterus volitans	1.37	27	0.36	
Calamus pennatula	1.37	14	0.36	
Prionotus punctatus	1.37	14	0.36	
Porichthys pauciradiatus	0.00	55		
Total	382.62		100.00	

PROJECT STATION: 621
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 617 Long W 5525
 start stop duration
 TIME : 08:55 09:25 30 (min) Purpose code: 3
 LOG : 7074.00 7075.50 1.50 Area code : 1
 FDEPTH: 35 36 GearCond.code:
 BDEPTH: 35 36 Validity code:
 Towing dir: 113 Wire out: 200 m Speed: 31 kn*10
 Sorted: 30 Kg Total catch: 30.65 CATCH/HOUR: 61.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	15.00	230	25.77	25
Calamus pennatula	7.00	22	12.72	
Chloroscombrus chrysurus	6.00	116	9.79	26
Carcharhinus acronotus	5.80	2	9.46	
Rhizoprionodon porosus	5.80	4	9.46	
Priacanthus arenatus	5.00	56	9.46	
Loligo plei	2.40	364	3.92	
Rhomboplites aurorubens	1.80	34	2.94	
Lutjanus synagris	1.80	14	2.94	
Calamus penna	1.60	6	2.61	
Echeneis naucrates	1.40	4	2.20	
Diplectrum bivittatum	1.00	8	1.63	
Pomacanthus arcuatus	1.00	4	1.63	
Aluterus schoepfi	0.80	2	1.31	
Acanthostracion quadricornis	0.80	12	1.31	
Trachinocephalus myops	0.60	6	0.90	
Scomberomorus brasiliensis	0.60	2	0.98	
Diplectrum formosum	0.30	4	0.49	
Selene spixii	0.20	4	0.33	
Gymnothorax ocellatus	0.00			
Psuedupeneus maculatus	0.00	2		
Total	61.30		100.01	

PROJECT STATION: 619
 DATE: 14/ 8/86 GEAR TYPE: BT No:1 POSITION: Lat N 702 Long W 5604
 start stop duration
 TIME : 02:23 02:55 30 (min) Purpose code: 3
 LOG : 7018.20 7019.70 1.50 Area code : 1
 FDEPTH: 62 64 GearCond.code:
 BDEPTH: 62 64 Validity code:
 Towing dir: 308 Wire out: 300 m Speed: 31 kn*10
 Sorted: 15 Kg Total catch: 47.10 CATCH/HOUR: 94.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	16.00	800	17.83	20
Squilla normani	15.20	25	16.14	
Porichthys sp	10.40	1352	11.04	
Upeneus parvus	7.20	504	7.64	
Sardinella aurita	6.00	204	7.22	21
Penaeus brasiliensis	6.60	152	7.01	19
Rhomboplites aurorubens	4.40	116	4.67	22
Haemulon boschmae	3.20	408	3.40	
Chloroscombrus chrysurus	3.20	56	3.40	
CONGRIDAE	2.40	56	2.55	
Lepophidium sp	2.40	120	2.55	
Acanthostracion quadricornis	2.40	44	2.55	
Syacium sp.	1.60	40	1.70	
Eucinostomus argenteus	1.60	16	1.70	
Gymnothorax ocellatus	1.60	24	1.70	
Cyclopaetta chittendeni	1.60	0	1.70	
Hoplunnis diomedianus	1.20	40	1.27	
Trachinocephalus myops	1.20	16	1.27	
Prionotus punctatus	1.20	64	1.27	
Ophidion sp.	0.80	32	0.85	
Sphoeroides sp	0.40	8	0.42	
Sphoeroides dorsalis	0.40	8	0.42	
Decapterus punctatus	0.40	8	0.42	
Dactylopterus volitans	0.40	24	0.42	
Diplectrum radiale	0.40	8	0.42	
Diplectrum formosum	0.40	32	0.42	
Prionotus stearnsi	0.00	64		
Haemulon steindachneri	0.00	64		
Squilla sp	0.00	128		
Total	94.20		99.98	

PROJECT STATION: 622
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 635 Long W 5458
 start stop duration
 TIME : 12:15 12:45 30 (min) Purpose code: 3
 LOG : 7103.50 7105.20 1.70 Area code : 1
 FDEPTH: 35 35 GearCond.code:
 BDEPTH: 35 35 Validity code:
 Towing dir: 100 Wire out: 200 m Speed: 34 kn*10
 Sorted: 32 Kg Total catch: 32.60 CATCH/HOUR: 65.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	25.40	792	30.96	27
Lutjanus synagris	12.60	36	19.33	20
Loligo plei	8.00	2666	12.27	
Upeneus parvus	5.60	546	8.59	
Chloroscombrus chrysurus	4.80	78	7.36	29
Scomberomorus cavalla	1.60	4	2.45	
Rhinobatus percellens	1.60	4	2.45	
Priacanthus arenatus	1.40	12	2.15	
Orthopristis ruber	1.00	8	1.53	
Diplectrum radiale	0.60	6	0.92	
Echeneis naucrates	0.60	2	0.92	
Acanthostracion quadricornis	0.60	6	0.92	
Aluterus monoceros	0.40	2	0.61	
Sardinella aurita	0.40	4	0.61	
Diplectrum formosum	0.20	4	0.31	
Trachinocephalus myops	0.20	4	0.31	
Selar crumenophthalmus	0.20	6	0.31	
Total	65.20		100.00	

PROJECT STATION: 620
 DATE: 14/ 8/86 GEAR TYPE: BT No:1 POSITION: Lat N 645 Long W 5545
 start stop duration
 TIME : 06:11 06:41 30 (min) Purpose code: 3
 LOG : 7050.00 7052.40 1.80 Area code : 1
 FDEPTH: 46 46 GearCond.code:
 BDEPTH: 46 46 Validity code:
 Towing dir: 113 Wire out: 250 m Speed: 35 kn*10
 Sorted: 12 Kg Total catch: 12.40 CATCH/HOUR: 24.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Loligo plei	12.00	1836	48.39	23
Aluterus monoceros	3.00	4	12.10	
Scomberomorus cavalla	2.00	2	8.06	
Rhomboplites aurorubens	2.00	32	8.06	24
Eucinostomus argenteus	1.40	16	5.65	
Diplectrum formosum	1.40	20	5.65	
Priacanthus arenatus	0.80	2	3.23	
Prionotus punctatus	0.60	2	2.42	
Chloroscombrus chrysurus	0.40	4	1.61	
Sardinella aurita	0.40	8	1.61	
Pristipomoides macrophthalmus	0.40	14	1.61	
Diodon hystrix	0.20	2	0.81	
Synodus poyei	0.20	2	0.81	
Total	24.80		100.01	

PROJECT STATION: 623
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 626 Long W 5459
 start stop duration
 TIME : 14:38 15:08 30 (min) Purpose code: 3
 LOG : 7123.60 7125.40 1.80 Area code : 1
 FDEPTH: 30 30 GearCond.code:
 BDEPTH: 30 30 Validity code:
 Towing dir: 270 Wire out: 150 m Speed: 32 kn*10
 Sorted: 107 Kg Total catch: 375.80 CATCH/HOUR: 751.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	320.40	390	42.63	32
Priacanthus arenatus	85.60	360	11.42	33
Rhomboplites aurorubens	55.20	3610	7.34	34
Haemulon boschmae	52.00	5634	6.92	
Lutjanus griseus	42.00	10	5.59	30
Orthopristis ruber	29.20	208	3.89	
Haemulon steindachneri	24.60	168	3.27	
Chaetodipterus faber	20.80	52	2.77	
Carcharhinus porosus	19.40	6	2.58	
Sphyraxna guachancho	16.20	20	2.16	
Calamus penna	13.00	40	1.73	
Pomacanthus arcuatus	13.00	32	1.73	
Loligo plei	10.40	954	1.38	
Lutjanus purpureus	10.00	4	1.33	31
Selene vomer	9.60	40	1.28	
Anisotremus virginicus	7.80	26	1.04	
Haemulon plumieri	6.40	14	0.85	
Chloroscombrus chrysurus	5.20	58	0.69	
Selene spixii	3.20	14	0.43	
Adiantum chirurgum	2.60	7	0.35	
Selar crumenophthalmus	1.80	48	0.24	
Eucinostomus argenteus	1.60	14	0.21	
Chaetodon ocellatus	0.60	6	0.08	
Lutjanus purpureus	0.60	14	0.08	
Upeneus parvus	0.60	20	0.08	
Total	752.00		100.07	

PROJECT STATION: 624
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 610 Long W 5513
 TIME : 16:53 start stop duration Purpose code: 3
 LOG : 7141.10 7142.70 1.60 Area code : 1
 FDEPTH: 23 20 GearCond.code: 1
 BDEPTH: 23 20 Validity code:
 Towing dir: 226° Wire out: 150 m Speed: 330 kn*10
 Sorted: 27 Kg Total catch: 444.80 CATCH/HOUR: 809.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chirocentrodon bloekerianus	124.80	26464	14.03	35
Anchoa spiniifer	105.60	12672	11.87	
Harengula jaguana	105.60	4208	11.87	36
Anchoviella lepidontostole	83.20	7648	9.35	
Pellona harroweri	73.60	4928	8.27	
Trichiurus lepturus	73.60	2304	8.27	
Hemirhamphus amblychynchus	70.40	864	7.91	
Macrondon ancyliodon	54.40	664	6.12	
Peprilus paru	48.00	1152	5.40	
Chloroscombrus chrysurus	38.40	384	4.32	
Selene spixii	32.00	1984	3.60	
Sphyræna guachancho	19.20	320	2.16	
Anchoa sp	16.00	1648	1.80	
Penaeus schmitti	9.60	224	1.08	
Trachinotus carolinus	9.60	64	1.08	
Opisthonema oglinum	9.60	64	1.08	
Cynoscion jamaicensis	6.40	168	0.72	
Bagre marinus	6.40	32	0.72	
Selar crumenophthalmus	3.20	32	0.36	
Prionotus sp	0.00	224		
Upeneus parvus	0.00	96		
Opisthonema oglinum	0.00	224		
Lagocephalus inavigatus	0.00	96		
Cynoscion sp	0.00	1056		
Bairdiella sp	0.00	832		
Total	809.60		100.01	

PROJECT STATION: 627
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 634 Long W 5555
 TIME : 23:30 start stop duration Purpose code: 3
 LOG : 7194.90 7196.40 1.50 Area code : 1
 FDEPTH: 31 32 GearCond.code: 1
 BDEPTH: 31 32 Validity code:
 Towing dir: 301° Wire out: 150 m Speed: 31 kn*10
 Sorted: 30 Kg Total catch: 62.30 CATCH/HOUR: 124.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	44.00	1750	35.31	45
Pristipomoides macrophthalmus	14.00	922	11.24	47
Upeneus parvus	12.80	824	10.27	48
Haemulon steindachneri	8.00	1168	6.42	46
Acanthostracion quadricornis	6.00	64	4.82	
Saurida noronai	4.00	308	3.21	
Lepophidium profundorum	4.00	172	3.21	
Diplectrum formosum	3.60	92	2.89	
Sphyræna guachancho	3.20	8	2.57	
Penaeus brasiliensis	3.00	68	2.41	44
Porichthys sp	2.80	288	2.25	
Prionotus punctatus	2.00	4	1.61	
Lagocephalus laevigatus	2.00	4	1.61	
Decapterus punctatus	2.00	44	1.61	
Cynoscion jamaicensis	2.00	4	1.61	
Haemulon boschniae	2.00	292	1.61	
Opisthonema oglinum	2.00	24	1.61	
Lutjanus synagris	1.60	8	1.28	
Priacanthus arenatus	1.20	8	0.96	
Echeneis naucratos	1.20	4	0.96	
Albula vulpes	0.80	4	0.64	
Rhomboplites aurorubens	0.80	4	0.64	
Dactylopterus volitans	0.60	12	0.48	
Diplectrum radiolo	0.40	24	0.32	
Hoplunnis diomdianus	0.40	48	0.32	
Sphaeroides sp	0.20	12	0.16	
Scorpaena agassizi	0.00	4		
Total	124.60		100.02	

PROJECT STATION: 625
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 614 Long W 5526
 TIME : 19:09 start stop duration Purpose code: 3
 LOG : 7159.00 7160.50 1.50 Area code : 1
 FDEPTH: 17 20 GearCond.code: 1
 BDEPTH: 17 20 Validity code:
 Towing dir: 30° Wire out: 100 m Speed: 30 kn*10
 Sorted: 29 Kg Total catch: 194.60 CATCH/HOUR: 389.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ctenoscoelus gracilicirrus	66.00	1044	16.96	
Ctenoscoelus gracilicirrus	56.40	2844	14.49	
Selene spixii	39.60	3060	10.17	38
Cynoscion jamaicensis	30.00	360	7.71	
Trichiurus lepturus	24.00	264	6.17	
Cynoscion acoupa	18.40	18	4.73	39
SCIAENIDAE	18.00		4.62	
Chirocentrodon bloekerianus	18.00	4868	4.62	
Macrondon ancyliodon	18.00	396	4.62	
Cynoscion jamaicensis	14.40	528	3.70	
Micropogonias furnieri	13.20	24	3.39	
Conodon nobilis	12.00	24	3.08	
Menticirrhus americanus	9.60	36	2.47	
Carcharhinus porosus	9.40	2	2.42	
Penaeus subtilis	7.20	624	1.85	37
Bagre marinus	6.00	24	1.54	
Macrondon ancyliodon	6.00	48	1.54	
Micropogonias furnieri	4.00	6	1.03	
Bairdiella sp	3.60	216	0.92	
Anchoa spiniifer	3.60	492	0.92	
Pomadasys corvinaeformis	3.60	48	0.92	
Prionotus punctatus	3.60	144	0.92	
Conodon nobilis	3.00	6	0.77	
Menticirrhus americanus	1.60	4	0.41	
Larinus breviceps	0.00	72		
Pellona harroweri	0.00	108		
Harengula jaguana	0.00	56		
Total	389.20		99.97	

PROJECT STATION: 626
 DATE: 15/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 616 Long W 5616
 TIME : 02:47 start stop duration Purpose code: 3
 LOG : 722.30 7223.90 1.60 Area code : 1
 FDEPTH: 40 40 GearCond.code: 1
 BDEPTH: 40 40 Validity code:
 Towing dir: 301° Wire out: 250 m Speed: 29 kn*10
 Sorted: 32 Kg Total catch: 97.35 CATCH/HOUR: 194.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus gula	54.00	540	27.73	51
Chloroscombrus chrysurus	42.00	434	21.57	50
Haemulon aurolineatum	30.00	342	15.41	49
Dactylopterus volitans	9.00	150	4.62	
Trachinotus myops	6.00	318	3.08	
Priacanthus arenatus	6.00	36	3.08	
Uraspis secunda	6.00	6	3.08	
Aluterus heudelotii	6.00	18	3.08	
Rhinobatos porcellanus	4.20	12	2.16	
Prionotus punctatus	4.20	20	2.16	
Acanthostracion quadricornis	3.00	48	1.54	
Haemulon boschniae	3.00	648	1.54	
Diodon sp.	3.00	12	1.54	
Diplectrum formosum	2.40	42	1.23	
Lutjanus synagris	2.40	12	1.23	
Paralichthys tropicus	1.80	54	0.92	
Lepophidium profundorum	1.80	90	0.92	
Porichthys sp	1.80	78	0.92	
Syacium micrurus	1.50	36	0.77	
Rhomboplites aurorubens	1.50	18	0.77	
Lepophidium pteromysax	1.20	6	0.62	
Synodus foetens	0.90	12	0.46	
Haemulon steindachneri	0.90	12	0.46	
Fistularia potamba	0.90	6	0.46	
Decapterus punctatus	0.60	6	0.31	
Diplectrum radiolo	0.60	122	0.31	
Pristipomoides macrophthalmus	0.00	6		
Stephanolepis hispidus	0.00	6		
Total	194.70		99.97	

PROJECT STATION: 626
 DATE: 14/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 623 Long W 5539
 TIME : 21:15 start stop duration Purpose code: 3
 LOG : 7175.60 7177.20 1.60 Area code : 1
 FDEPTH: 27 27 GearCond.code: 1
 BDEPTH: 27 27 Validity code:
 Towing dir: 300° Wire out: 150 m Speed: 32 kn*10
 Sorted: 55 Kg Total catch: 1578.40 CATCH/HOUR: 3156.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Orthopristis ruber	1440.00	10860	45.62	43
Rhinoptera bonasus	939.40	154	29.76	
Ctenoscoelus gracilicirrus	268.00	8600	8.49	
Cynoscion jamaicensis	148.00	1440	4.69	40
Trachinotus cayennensis	108.00	120	3.42	
Mustelus canis	32.00	48	1.01	
Acanthostracion quadricornis	32.00	440	1.01	
Diplectrum formosum	32.00	960	1.01	
Haemulon steindachneri	20.00	320	0.63	
Conodon nobilis	16.00	40	0.51	
Priacanthus arenatus	12.00	80	0.38	
Menticirrhus americanus	12.00	40	0.30	
Prionotus punctatus	12.00	160	0.30	
Porichthys pauciradiatus	12.00	320	0.38	
Syacium sp.	8.00	40	0.25	
Albula vulpes	8.00	40	0.25	
Lutjanus synagris	8.00	40	0.25	
Scorpaena sp.	8.00	40	0.25	
Trichiurus lepturus	8.00	40	0.25	
Dactylopterus volitans	8.00	40	0.25	
Penaeus brasiliensis	6.80	160	0.22	42
Lepophidium profundorum	6.00	80	0.19	
Chloroscombrus chrysurus	4.00	120	0.13	
Selene spixii	4.00	120	0.13	
Upeneus parvus	4.00	200	0.13	
Penaeus subtilis	0.50	12	0.02	41
Peprilus paru	0.00	48		
Bothus sp	0.00	120		
Total	3156.70		99.99	

PROJECT STATION: 625
 DATE: 15/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 701 Long W 5654
 TIME : 06:41 start stop duration Purpose code: 3
 LOG : 7258.90 7260.30 1.40 Area code : 1
 FDEPTH: 44 40 GearCond.code: 1
 BDEPTH: 44 40 Validity code:
 Towing dir: 190° Wire out: 200 m Speed: 27 kn*10
 Sorted: 25 Kg Total catch: 124.50 CATCH/HOUR: 249.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon aurolineatum	80.00	1048	32.13	52
Lutjanus purpureus	23.40	44	9.40	
Priacanthus arenatus	20.00	336	8.35	
Rhomboplites aurorubens	20.00	224	8.03	
Balistes vetula	17.60	24	7.07	
Lutjanus purpureus	16.00	56	6.43	
Lutjanus synagris	16.00	96	6.43	
Eucinostomus argenteus	12.00	216	5.42	
Lutjanus synagris	10.00	22	4.02	
Lutjanus griseus	5.20	2	2.09	
Pomacanthus arcuatus	4.80	16	1.93	
Scomberomorus cavalla	4.20	2	1.69	
Haemulon steindachneri	4.00	96	1.61	
Chloroscombrus chrysurus	4.00	72	1.61	
Bodianus rufus	3.20	4	1.29	
Haemulon plumieri	3.20	8	1.29	
Rhomboplites aurorubens	1.40	6	0.56	
Anisotomus surinamensis	1.20	2	0.48	
Acanthostracion quadricornis	0.80	8	0.32	
Haemulon boschniae	0.40	88	0.16	
Total	249.00		100.03	

PROJECT STATION: 630
 DATE: 15/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 636 Long W 5648
 start stop duration
 TIME : 10:00 10:36 36 (min) Purpose code: 3
 LOG : 7288.40 7290.20 1.80 Area code : 1
 FDEPTH: 29 29 GearCond.code:
 BDEPTH: 29 29 Validity code:
 Towing dir: 122° Wire out: 150 m Speed: 36 kn*10
 Sorted: 63 Kg Total catch: 63.95 CATCH/HOUR: 127.90

PROJECT STATION: 634
 DATE: 16/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 629 Long W 5623
 start stop duration
 TIME : 03:20 03:58 38 (min) Purpose code: 3
 LOG : 7445.10 7446.60 1.50 Area code : 1
 FDEPTH: 30 30 GearCond.code:
 BDEPTH: 30 30 Validity code:
 Towing dir: 300° Wire out: 150 m Speed: 20 kn*10
 Sorted: 32 Kg Total catch: 164.95 CATCH/HOUR: 329.90

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Eucinostomus argenteus	71.20	3312	55.67
Upeneus parvus	37.00	3262	28.93
Loligo plei	7.20	1210	5.63
Rhinobatos parcellens	3.00	10	2.35
Chloroscombrus chrysurus	2.00	06	2.19
Chaetodipterus faber	2.00	2	2.03
Lutjanus synagris	1.20	12	0.94
Priacanthus arenatus	0.60	0	0.47
Lutjanus purpureus	0.60	12	0.47
Fistularia potimba	0.60	4	0.47
Acanthostracion quadricornis	0.40	6	0.31
Hemicaranx amblyrhynchus	0.30	2	0.23
Diodon hystrix	0.20	2	0.16
Dactylopterus volitans	0.20	2	0.16
Decapterus macarellus	0.00	86	
Selar crumenophthalmus	0.00	56	
Total	127.90		100.01

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Eucinostomus argenteus	140.00	7516	42.44
Caranx hippos	77.00	674	23.34
Upeneus parvus	52.00	5900	15.76
Synodus foetens	5.50	630	1.67
Rhinobatos parcellens	5.00	10	1.52
Sardinella aurita	5.00	190	1.52
Penaeus brasiliensis	4.40	107	1.33
Porichthys sp	4.00	200	1.21
Loligo plei	3.50	190	1.06
Priacanthus arenatus	3.50	30	1.06
Lepophidium profundorum	3.50	220	1.06
Diplectrum formosum	3.00	120	0.91
Decapterus punctatus	3.00	60	0.91
Diplectrum radiale	2.30	20	0.70
Haemulon steindachneri	2.00	20	0.61
Lutjanus synagris	2.00	10	0.61
Dactylopterus volitans	2.00	60	0.61
Echeneis naucrates	2.00	10	0.61
Haemulon boschmae	2.00	90	0.61
Sphaeroides sp	1.50	30	0.45
Acanthostracion quadricornis	1.50	10	0.45
Chloroscombrus chrysurus	1.50	20	0.45
Prionotus punctatus	1.50	190	0.45
Scorpaena agassizii	1.50	10	0.45
Scorpaena isthmensis	0.50	20	0.15
Stephanolepis hispidus	0.00	10	
Total	329.70		99.94

PROJECT STATION: 631
 DATE: 15/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 620 Long W 5624
 start stop duration
 TIME : 13:23 13:53 30 (min) Purpose code: 3
 LOG : 7320.20 7321.90 1.70 Area code : 1
 FDEPTH: 26 27 GearCond.code:
 BDEPTH: 26 27 Validity code:
 Towing dir: 122° Wire out: 150 m Speed: 35 kn*10
 Sorted: 45 Kg Total catch: 107.90 CATCH/HOUR: 375.80

PROJECT STATION: 632
 DATE: 16/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 614 Long W 5644
 start stop duration
 TIME : 08:31 09:01 30 (min) Purpose code: 3
 LOG : 7493.10 7494.50 1.40 Area code : 1
 FDEPTH: 23 23 GearCond.code:
 BDEPTH: 23 23 Validity code:
 Towing dir: 37° Wire out: 150 m Speed: 20 kn*10
 Sorted: 32 Kg Total catch: 272.60 CATCH/HOUR: 545.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Eucinostomus argenteus	105.00	7770	27.94
Lutjanus synagris	80.00	230	21.29
Loligo plei	58.00	9330	15.43
Scomberomorus cavalla	35.00	60	9.31
Upeneus parvus	25.00	2278	6.65
Hemicaranx amblyrhynchus	16.50	110	4.39
Lutjanus purpureus	16.00	60	4.26
Chloroscombrus chrysurus	14.00	1600	3.73
Rhinobatos parcellens	5.00	10	1.33
Dactylopterus volitans	5.00	20	1.33
Mutellus nigmani	4.00	10	1.06
Prionotus punctatus	3.50	10	0.93
Diplectrum radiale	3.00	20	0.80
Diodon sp.	2.50	10	0.67
Opisthonema oglinum	1.50	10	0.40
Priacanthus arenatus	1.50	10	0.40
Porichthys sp	0.30	10	0.08
Total	375.80		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Chirocentrodon blockertianus	152.60	105002	27.99
Rhizoprionodon porosus	105.00	102	19.26
Anchoa hepsetus	77.00	3202	14.12
Anchoa lyolepis	68.60	39942	12.56
Dasyatis sp	50.00	14	9.17
Lutjanus synagris	31.00	98	5.69
Opisthonema oglinum	16.80	266	3.08
Sphyræna guachancho	11.20	14	2.05
Selene spixii	8.40	210	1.54
Peprilus paru	5.60	84	1.03
Scomberomorus cavalla	4.20	28	0.77
Chloroscombrus chrysurus	2.80	42	0.51
Saurida normani	2.80	84	0.51
Scomberomorus brasiliensis	2.20	2	0.40
Cynoscion jamaicensis	2.10	28	0.39
Cynoscion acoupa	2.00	2	0.37
Trichiurus lepturus	1.40	42	0.26
Selene vomer	1.40	20	0.26
Pellona harroweri	0.00	1526	
Loligo plei	0.00	1526	
Opisthonema oglinum	0.00	1694	
Sardinella aurita	0.00	14	
Ctenosciaena gracilicirrus	0.00	14	
Diplectrum bivittatum	0.00	14	
Total	545.10		99.98

PROJECT STATION: 632
 DATE: 15/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 611 Long W 5608
 start stop duration
 TIME : 15:53 16:23 30 (min) Purpose code: 3
 LOG : 7341.00 7342.80 1.00 Area code : 1
 FDEPTH: 24 25 GearCond.code:
 BDEPTH: 21 25 Validity code:
 Towing dir: 302° Wire out: 150 m Speed: 23 kn*10
 Sorted: 9 Kg Total catch: 289.50 CATCH/HOUR: 579.00

PROJECT STATION: 633
 DATE: 16/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 612 Long W 5654
 start stop duration
 TIME : 10:40 10:45 5 (min) Purpose code: 3
 LOG : 7510.20 7510.50 0.30 Area code : 1
 FDEPTH: 9 9 GearCond.code:
 BDEPTH: 9 9 Validity code:
 Towing dir: 270° Wire out: 75 m Speed: 31 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Anchoa hepsetus	252.00	97860	43.52
Chirocentrodon blockertianus	100.00	84360	31.09
Scomberomorus cavalla	26.00	10	4.49
Opisthonema oglinum	25.20	1530	4.35
Lutjanus synagris	25.00	52	4.32
Anchoa lyolepis	21.60	9216	3.73
Loligo plei	14.40	864	2.49
Sardinella aurita	14.40	1080	2.49
Cynoscion jamaicensis	14.40	108	2.49
Trachinotus carolinus	2.20	2	0.38
Synodus poeyi	1.80	18	0.31
Rhizoprionodon porosus	1.40	2	0.24
Sphyræna guachancho	0.60	2	0.10
Scomberomorus cavalla	0.00	72	
Total	579.00		100.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
N O C A T C H	0.00		
Total			

PROJECT STATION: 633
 DATE: 15/ 8/88 GEAR TYPE: PT No:4 POSITION: Lat N 610 Long W 5615
 start stop duration
 TIME : 23:14 23:44 30 (min) Purpose code: 3
 LOG : 7407.60 7408.60 1.20 Area code : 1
 FDEPTH: 0 9 GearCond.code:
 BDEPTH: 23 24 Validity code:
 Towing dir: 53° Wire out: 50 m Speed: 18 kn*10
 Sorted: 34 Kg Total catch: 283.50 CATCH/HOUR: 567.00

PROJECT STATION: 634
 DATE: 16/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 615 Long W 5700
 start stop duration
 TIME : 13:00 13:30 30 (min) Purpose code: 3
 LOG : 7520.50 7522.10 1.60 Area code : 2
 FDEPTH: 11 14 GearCond.code:
 BDEPTH: 11 14 Validity code:
 Towing dir: 300° Wire out: 50 m Speed: 30 kn*10
 Sorted: 61 Kg Total catch: 61.90 CATCH/HOUR: 123.80

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Cynoscion jamaicensis	256.00	11136	45.15
Chirocentrodon blockertianus	96.00	52800	16.93
Pellona harroweri	49.60	1356	8.75
Anchoa sp	36.00	30400	6.35
Sphyræna guachancho	31.60	64	5.43
Anchoa hepsetus	24.00	5280	4.23
Ctenosciaena gracilicirrus	20.80	472	3.67
Scomberomorus cavalla	7.40	4	1.31
Caranx hippos	6.40	18	1.20
Opisthonema oglinum	6.40	128	1.13
Pomacanthus arcuatus	6.40	2	1.13
Porichthys sp	4.00	208	0.85
Chaetodipterus faber	3.20	16	0.56
Peprilus paru	3.20	32	0.56
Prionotus punctatus	3.20	96	0.56
Lepophidium profundorum	2.40	16	0.42
Trichiurus lepturus	1.60	64	0.28
Sardinella aurita	1.60	16	0.28
Harengula jaguana	1.60	32	0.28
Ogcocephalus nasutus	0.80	16	0.14
Loligo pealei	0.80	64	0.14
Anchoa spinifer	0.80	16	0.14
Penaeus subtilis	0.00	16	
Total	567.00		99.99

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Pomacanthus arcuatus	51.40	30	41.52
Scomberomorus cavalla	29.20	20	23.59
Anchoa sp	19.56	5747	15.86
Oligoplites saliens	8.00	8	6.46
Cynoscion virescens	5.00	2	4.04
Actis opte	4.60	4	3.72
Anchoa lyolepis	3.04	5176	2.46
Echeneis naucrates	1.20	322	0.97
Lycengraulis grossidens	1.20	642	0.97
Peprilus paru	0.60	214	0.46
Total	123.80		100.01

DATE:16/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 639
 start stop duration POSITION:Lat N 621
 TIME : 14:17 14:47 30 (min) Long W 5705
 LOG : 7520.20 7529.50 1.30 Purpose code: 3
 Area code : 2
 FDEPTH: 14 14 GearCond.code: 3
 BDEPTH: 14 14 Validity code: 4
 Towing dir: 305° Wire out: 50 m Speed: 26 kn*10

Sorted: 31 Kg Total catch: 106.80 CATCH/HOUR: 213.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa sp	88.40	42428	41.39	
Oligoplites saliens	62.00	92	29.03	74
Pomacanthus arcuatus	14.40	8	6.74	
Odontognathus macronotus	12.00	7392	5.62	
Trichiurus lepturus	9.60	312	4.49	
Scorpaenomorax cavalla	8.40	10	3.93	75
Peprilus paru	5.20	72	2.43	
Rhizoprionodon porosus	3.00	6	1.40	
Harengula jaguana	2.80	144	1.31	
Hemicaranx amblyrhynchus	2.40	20	1.12	
Opisthonema oglinum	2.00	24	0.94	
Lycengrullis grossidens	1.20	24	0.56	
Pellona harroweri	1.00	76	0.47	
Bagre bagre	0.80	4	0.37	
Arius grandicassis	0.40	2	0.19	
Total	213.60		99.99	

DATE:16/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 639
 start stop duration POSITION:Lat N 621
 TIME : 15:11 15:41 30 (min) Long W 5709
 LOG : 7531.00 7533.10 1.30 Purpose code: 3
 Area code : 2
 FDEPTH: 14 14 GearCond.code: 3
 BDEPTH: 14 14 Validity code: 4
 Towing dir: 311° Wire out: 100 m Speed: 27 kn*10

Sorted: 27 Kg Total catch: 194.95 CATCH/HOUR: 309.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa sp	105.00	20560	26.93	
Xiphopenaeus kroyeri	63.00	44352	16.16	
Trichiurus lepturus	61.00	1022	15.00	
Stellifer rastriifer	42.00	3398	10.77	
Macrodon ancylodon	23.80	420	6.10	
Bagre bagre	16.00	322	4.31	
Anchoa sp	15.40	1148	3.95	
Odontognathus macronotus	15.40	2590	3.95	
Harengula jaguana	14.00	378	3.59	
Isopisthus parvipinnis	11.20	490	2.87	
Penaeus subtilis	9.80	518	2.51	76
Pellona harroweri	7.00	504	1.00	
Peprilus paru	2.10	14	0.54	
Paralonchurus brasiliensis	2.10	112	0.54	
Pomacanthus arcuatus	0.70	14	0.18	
Total	309.90		100.00	

DATE:16/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 640
 start stop duration POSITION:Lat N 626
 TIME : 16:20 16:56 30 (min) Long W 5715
 LOG : 7539.30 7540.60 1.50 Purpose code: 3
 Area code : 2
 FDEPTH: 15 15 GearCond.code: 3
 BDEPTH: 15 15 Validity code: 4
 Towing dir: 315° Wire out: 100 m Speed: 30 kn*10

Sorted: 32 Kg Total catch: 259.60 CATCH/HOUR: 519.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa sp	84.00	17264	16.33	
Macrodon ancylodon	64.00	1200	12.33	
Stellifer sp	56.00	2986	10.79	
Opisthonema oglinum	52.00	640	10.17	77
Trichiurus lepturus	51.20	1184	9.06	
Harengula jaguana	36.80	1040	7.09	78
Xiphopenaeus kroyeri	27.20	6224	5.24	
Arius proops	22.40	16	4.31	
Anchoa sp	16.00	832	3.08	
Nebriis microps	16.00	64	3.08	
Bagre bagre	14.40	352	2.77	
Penaeus subtilis	12.80	640	2.47	79
Rhinobatos percellens	12.00	16	2.47	
Odontognathus macronotus	11.20	1600	2.16	
Isopisthus parvipinnis	9.60	272	1.85	
Shrimps, small, non comm.	8.00	6680	1.54	
Hemicaranx amblyrhynchus	6.40	80	1.23	
Microgogonias furnieri	6.40	128	1.23	
Pellona harroweri	4.80	304	0.92	
Paralonchurus brasiliensis	3.20	16	0.62	
Oligoplites saliens	0.80	16	0.15	
Selene spixii	0.80	16	0.15	
Peprilus paru	0.80	96	0.15	
Total	519.20		99.99	

DATE:16/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 641
 start stop duration POSITION:Lat N 631
 TIME : 17:28 17:58 30 (min) Long W 5710
 LOG : 7544.60 7545.90 1.30 Purpose code: 3
 Area code : 2
 FDEPTH: 19 18 GearCond.code: 3
 BDEPTH: 19 18 Validity code: 4
 Towing dir: 20° Wire out: 100 m Speed: 28 kn*10

Sorted: 28 Kg Total catch: 141.10 CATCH/HOUR: 282.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	112.00	2020	39.69	
Macrodon ancylodon	41.00	470	14.53	80
Microgogonias furnieri	27.00	1490	9.57	
Xiphopenaeus kroyeri	14.00	4250	4.96	81
Isopisthus parvipinnis	13.60	700	4.82	
Nematopalaeomon schmitti	11.00	10490	3.90	
Bairdiella sp	11.00	810	3.90	
Bagre bagre	10.00	70	3.54	
Pellona harroweri	6.00	230	2.13	
Nebriis microps	6.00	20	2.13	
Anchoa sp	5.00	190	1.77	
Arius grandicassis	5.00	10	1.77	
Stellifer sp	4.00	140	1.42	
Peprilus paru	4.00	40	1.42	
Penaeus subtilis	3.00	110	1.06	82
SCIAENIDAE	3.00	2600	1.06	
Harengula jaguana	3.00	60	1.06	
Hemicaranx amblyrhynchus	1.60	10	0.57	
Odontognathus macronotus	1.00	300	0.35	
Anchoa sp	1.00	140	0.35	
Symphurus sp	0.00	140		
Total	282.20		100.00	

DATE:16/ 8/88 GEAR TYPE: PT No:4 PROJECT STATION: 642
 start stop duration POSITION:Lat N 639
 TIME : 19:21 19:56 35 (min) Long W 5715
 LOG : 7557.70 7558.90 1.20 Purpose code: 1
 Area code : 2
 FDEPTH: 0 0 GearCond.code: 2
 BDEPTH: 23 21 Validity code: 4
 Towing dir: 20° Wire out: 50 m Speed: 26 kn*10

Sorted: 30 Kg Total catch: 121.30 CATCH/HOUR: 207.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	102.86	62667	49.47	
Porichthys pauciradiatus	20.11	1454	13.52	
Chirocentron bleekeriannus	21.26	10553	10.22	
Cynoscion jamaicensis	20.57	144	9.89	83
Opisthonema oglinum	10.29	1701	4.95	
Prionotus punctatus	10.29	357	2.64	
Opisthonema oglinum	5.49	103	1.49	
Sphyraena quachancho	3.09	14	2.07	
Rhizoprionodon porosus	1.54	2	0.66	
Penaeus notialis	1.37	69	0.66	
Chloroscombrus chrysurus	1.37	34	0.66	
Chaetodipterus faber	1.03	7	0.50	
Synodus pocyi	0.69	7	0.33	
Total	207.96		100.02	

DATE:16/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 643
 start stop duration POSITION:Lat N 645
 TIME : 21:17 21:47 30 (min) Long W 5715
 LOG : 7569.40 7570.80 1.40 Purpose code: 3
 Area code : 2
 FDEPTH: 25 24 GearCond.code: 3
 BDEPTH: 25 24 Validity code: 4
 Towing dir: 277° Wire out: 150 m Speed: 29 kn*10

Sorted: 34 Kg Total catch: 85.70 CATCH/HOUR: 171.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	71.00	7116	41.42	84
Upeneus parvus	31.00	3336	10.09	85
Porichthys pauciradiatus	15.60	846	9.10	
Diplectrum bivittatum	13.60	866	7.93	
Anchoa hepsetus	6.60	2090	3.85	
Synodus pocyi	6.60	510	3.85	
Prionotus punctatus	4.00	20	2.33	
Lutjanus synagris	3.60	36	2.10	
Rhinobatos percellens	3.20	16	1.87	
Lepophidium profundorum	2.60	46	1.52	
Opisthonema oglinum	2.60	6	1.52	
Hemicaranx amblyrhynchus	2.00	6	1.17	
Priacanthus arenatus	2.00	6	1.17	
Penaeus brasiliensis	1.00	36	1.05	
Sphyraena quachancho	1.00	6	0.93	
Orthopristis ruber	1.00	16	0.58	
Acanthostracion quadricornis	1.00	10	0.58	
Loligo plic	0.60	46	0.35	
Penaeus notialis	0.60	10	0.35	
Haemulon steindachneri	0.20	6	0.12	
Loligo plic	0.20	40	0.12	
Lutjanus purpureus	0.00	16		
Total	171.40		100.00	

DATE:17/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 644
 start stop duration POSITION:Lat N 700
 TIME : 03:13 03:43 30 (min) Long W 5731
 LOG : 7622.10 7623.60 1.50 Purpose code: 3
 Area code : 2
 FDEPTH: 25 25 GearCond.code: 3
 BDEPTH: 25 25 Validity code: 4
 Towing dir: 32° Wire out: 150 m Speed: 30 kn*10

Sorted: 14 Kg Total catch: 14.95 CATCH/HOUR: 29.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Synodus foetens	5.40	158	10.06	
Callinectes ornatus	3.00	440	12.71	
Microgogonias furnieri	3.00	18	10.03	
Opisthonema oglinum	3.00	54	10.03	86
Porichthys sp	2.40	166	8.03	
Diplectrum radiale	2.40	104	8.03	
Penaeus brasiliensis	1.80	36	6.02	87
Prionotus punctatus	1.20	60	4.01	
Chloroscombrus chrysurus	1.00	22	3.34	
Lepophidium profundorum	1.00	26	3.34	
Diplectrum sp	1.00	12	3.34	
Desapterus punctatus	1.00	22	3.34	
Rhinobatos percellens	0.90	2	3.01	
Cynoscion jamaicensis	0.40	2	1.34	
Trachinocephalus myops	0.40	14	1.34	
Dactylopterus volitans	0.40	20	1.34	
Syacium papposum	0.30	12	1.00	
Upeneus parvus	0.20	22	0.67	
Ophidion sp.	0.10	4	0.33	
Sphaeroides sp	0.10	16	0.33	
Scorpaena opaxialis	0.10	6	0.33	
Rhomboplites aurorubens	0.00	2		
Symphurus plagiosa	0.00	2		
Bohus sp	0.00	2		
Acanthostracion quadricornis	0.00	4		
Total	29.90		99.97	

DATE:17/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 645
 start stop duration POSITION:Lat N 720
 TIME : 05:46 06:16 30 (min) Long W 5721
 LOG : 7641.40 7642.80 1.40 Purpose code: 3
 Area code : 2
 FDEPTH: 41 40 GearCond.code: 3
 BDEPTH: 41 40 Validity code: 4
 Towing dir: 215° Wire out: 200 m Speed: 32 kn*10

Sorted: 5 Kg Total catch: 5.00 CATCH/HOUR: 10.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plic	4.20	714	42.00	88
Echeneis naucrates	1.00	8	10.00	
Priacanthus arenatus	1.00	8	10.00	
Rhomboplites aurorubens	1.00	20	10.00	
Rachycentron canadus	0.80	2	8.00	
Chloroscombrus chrysurus	0.60	14	6.00	
Synodus pocyi	0.40	8	4.00	
Diplectrum formosum	0.40	14	4.00	
Lutjanus synagris	0.40	2	4.00	
Upeneus parvus	0.20	3	2.00	
Total	10.00		100.00	

PROJECT STATION: 646
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 732 Long W 5716
 start stop duration
 TIME : 08:10 08:40 30 (min) Purpose code: 3
 LOG : 7657.50 7658.80 1.30 Area code : 2
 FDEPTH: 58 60 GearCond.code: 2
 BDEPTH: 58 60 Validity code:
 Towing dir: 300° Wire out: 300 m Speed: 27 kn*10
 Sorted: 59 Kg Total catch: 547.30 CATCH/HOUR: 1094.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	860.80	22016	79.37	89
Lutjanus purpureus	83.00	20	7.50	92
Priacanthus arenatus	51.00	1292	4.66	91
Decapterus punctatus	42.60	1514	3.89	90
Opisthonema oglinum	25.00	185	2.34	
Rhomboplites aurorubens	10.20	226	0.93	
Chloroscrombus chrysurus	5.20	162	0.40	
Pristipomoides macrophthalma	3.40	162	0.31	
Acanthostracion quadricornis	1.80	18	0.16	
Eucinostomus argenteus	0.80	10	0.07	
Upeneus parvus	0.80	10	0.07	
Calamus pennatula	0.80	1	0.07	
Scyllarides deltois	0.60	1	0.05	
Penaeus brasiliensis	0.00	10		
Total	1094.60		99.98	

PROJECT STATION: 647
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 736 Long W 5703
 start stop duration
 TIME : 13:58 14:29 30 (min) Purpose code: 3
 LOG : 7701.80 7703.10 1.50 Area code : 2
 FDEPTH: 80 81 GearCond.code: 2
 BDEPTH: 80 81 Validity code:
 Towing dir: 120° Wire out: 350 m Speed: 31 kn*10
 Sorted: 33 Kg Total catch: 264.00 CATCH/HOUR: 528.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selar crumenophthalmus	182.40	3596	34.55	93
Sardinella aurita	128.00	3020	24.24	94
Ariomma bondi	88.00	1520	16.67	
Decapterus punctatus	75.20	2350	14.24	95
Upeneus parvus	17.60	1344	3.33	
Pristipomoides macrophthalma	12.00	360	2.27	96
Trachurus lathami	11.20	240	2.12	
Synodus poeyi	6.40	60	1.21	
Rhomboplites aurorubens	4.00	90	0.76	
Loligo penicli	1.60	10	0.30	
Priacanthus arenatus	1.60	10	0.30	
Total	528.00		99.99	

PROJECT STATION: 648
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 727 Long W 5702
 start stop duration
 TIME : 15:30 16:00 30 (min) Purpose code: 3
 LOG : 7712.00 7713.50 1.50 Area code : 2
 FDEPTH: 61 60 GearCond.code: 2
 BDEPTH: 61 60 Validity code:
 Towing dir: 120° Wire out: 300 m Speed: 29 kn*10
 Sorted: 36 Kg Total catch: 37.27 CATCH/HOUR: 74.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus apodus	30.60	4	41.05	97
Rhomboplites aurorubens	7.00	234	9.39	98
Sphyræna guachancho	6.00	14	8.05	
Upeneus parvus	5.00	140	6.71	100
Scomberomorus cavalla	5.00	2	6.71	
Priacanthus arenatus	4.60	100	6.17	
Pristipomoides macrophthalma	3.00	10	4.02	99
Pomacanthus paru	2.30	10	3.09	
Decapterus macarellus	1.60	150	2.15	101
Eucinostomus argenteus	1.50	32	2.01	
Chloroscrombus chrysurus	1.20	10	2.01	
Rhinobatos percellens	1.00	7	1.34	
Loligo penicli	0.90	40	1.21	
Decapterus punctatus	0.90	52	1.21	
Sardinella aurita	0.80	18	1.07	
Acanthostracion quadricornis	0.70	4	0.94	
Lutjanus synagris	0.60	1	0.80	
Selar crumenophthalmus	0.40	1	0.54	
Penaeus brasiliensis	0.30	1	0.40	
Dactylopterus volitans	0.30	1	0.40	
Synodus poeyi	0.30	1	0.40	
Diplectrum radiale	0.24	1	0.32	
Total	74.54		99.99	

PROJECT STATION: 649
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 716 Long W 5702
 start stop duration
 TIME : 17:13 17:43 30 (min) Purpose code: 3
 LOG : 7724.50 7726.30 1.80 Area code : 2
 FDEPTH: 50 50 GearCond.code: 2
 BDEPTH: 50 50 Validity code:
 Towing dir: 120° Wire out: 300 m Speed: 33 kn*10
 Sorted: 22 Kg Total catch: 47.40 CATCH/HOUR: 94.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Priacanthus arenatus	51.60	1052	54.43	102
Upeneus parvus	12.00	176	12.66	103
Rhomboplites aurorubens	10.80	200	11.39	104
Scomberomorus cavalla	4.20	2	4.43	
Selar crumenophthalmus	3.60	72	3.80	
Eucinostomus argenteus	2.60	40	2.74	
Lutjanus purpureus	2.00	1	2.11	
Lutjanus purpureus	1.60	1	1.69	
Pristipomoides macrophthalma	1.60	10	1.69	
Rhinobatos percellens	1.40	4	1.48	
Diplectrum formosum	1.20	20	1.27	
Bodianus rufus	0.80	10	0.84	
Trachinocephalus myops	0.60	6	0.63	
Diodon hystrix	0.40	4	0.42	
Diplectrum divittatum	0.40	4	0.42	
Chloroscrombus chrysurus	0.00	4		
Total	94.80		100.00	

PROJECT STATION: 650
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 708 Long W 5706
 start stop duration
 TIME : 18:49 19:19 30 (min) Purpose code: 3
 LOG : 7735.50 7736.70 1.20 Area code : 2
 FDEPTH: 41 41 GearCond.code: 2
 BDEPTH: 41 41 Validity code:
 Towing dir: 300° Wire out: 250 m Speed: 27 kn*10
 Sorted: 27 Kg Total catch: 149.30 CATCH/HOUR: 298.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon steindachneri	65.00	610	21.77	105
Haemulon aurolineatum	40.00	510	13.40	106
Chloroscrombus chrysurus	25.00	310	8.37	
Lutjanus purpureus	24.00	4	8.04	
Rhomboplites aurorubens	22.00	300	7.37	107
Eucinostomus argenteus	22.00	420	7.37	
Lutjanus purpureus	15.00	70	5.02	
Haemulon plumieri	14.00	50	4.69	
Lutjanus synagris	10.00	90	3.35	
Pseudupeneus maculatus	8.00	140	2.68	
Calamus penna	8.00	10	2.68	
Calamus pennatula	8.00	30	2.68	
Haemulon boschmae	6.00	270	2.01	
Priacanthus arenatus	5.00	60	1.67	
Synodus poeyi	3.60	130	1.21	
Diplectrum formosum	3.00	60	1.00	
Prionotus punctatus	3.00	50	1.00	
Balistes capricornis	2.40	2	0.80	
Syacium micrurus	2.00	20	0.67	
Chaetodipterus faber	2.00	10	0.67	
Anisotremus virginicus	2.00	10	0.67	
Acanthostracion quadricornis	2.00	10	0.67	
Scorpaena brasiliensis	1.60	10	0.54	
Dactylopterus volitans	1.00	20	0.33	
Pristipomoides macrophthalma	1.00	10	0.33	
Holocentrus adscensionis	1.00	70	0.33	
Sardinella aurita	1.00	10	0.33	
Selar crumenophthalmus	1.00	10	0.33	
Porichthys pauciradiatus	0.80	30	0.30	
Penaeus brasiliensis	0.80	10	0.30	
Prionotus sp	0.00	30		
Total	298.60		99.98	

PROJECT STATION: 651
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 723 Long W 5723
 start stop duration
 TIME : 21:04 21:34 30 (min) Purpose code: 3
 LOG : 7752.10 7753.40 1.30 Area code : 2
 FDEPTH: 35 35 GearCond.code: 2
 BDEPTH: 35 35 Validity code:
 Towing dir: 293° Wire out: 200 m Speed: 24 kn*10
 Sorted: 53 Kg Total catch: 173.50 CATCH/HOUR: 347.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon steindachneri	153.00	1380	44.09	108
Eucinostomus argenteus	49.20	762	14.10	109
Haemulon plumieri	21.60	78	6.22	
Lutjanus griseus	18.20	6	5.24	
Rhomboplites aurorubens	17.40	102	5.01	
Lutjanus synagris	12.60	84	3.63	
Anisotremus virginicus	12.00	48	3.46	
Scomberomorus cavalla	6.40	2	1.84	
Calamus pennatula	4.80	6	1.38	
Pomatomus saltatrix	4.80	6	1.38	
Rhinobatos percellens	4.30	12	1.38	
Scorpaena brasiliensis	4.30	24	1.38	
Priacanthus arenatus	4.20	48	1.21	
Pomacanthus paru	4.20	24	1.21	
Chaetodipterus faber	3.60	6	1.04	
Lutjanus purpureus	3.00	12	0.86	
Lutjanus griseus	2.40	6	0.69	
Dactylopterus volitans	2.40	42	0.69	
Chloroscrombus chrysurus	2.40	54	0.69	
Synodus poeyi	1.80	120	0.52	
Haemulon aurolineatum	1.80	18	0.52	
Acanthostracion quadricornis	1.80	24	0.52	
Calamus penna	1.60	6	0.52	
Trachinocephalus myops	1.60	24	0.52	
Syacium sp	1.20	30	0.35	
Porichthys pauciradiatus	1.20	102	0.35	
Prionotus punctatus	1.00	12	0.29	
Pseudupeneus maculatus	1.00	24	0.29	
Penaeus brasiliensis	0.60	12	0.17	
Selar crumenophthalmus	0.60	6	0.17	
Holocentrus isabellia	0.60	6	0.17	
Balistes capricornis	0.00	6		
Total	347.00		99.97	

PROJECT STATION: 652
 DATE: 17/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 721 Long W 5737
 TIME: start stop duration Purpose code: 3
 LOG : 7765.30 7766.70 1.40 Area code : 2
 FDEPTH: 32 29 GearCond. code:
 BDEPTH: 32 29 Validity code:
 Towing dir: 283° Wire out: 200 m Speed: 21 kn*10

Sorted: 34 Kg Total catch: 34.05 CATCH/HOUR: 68.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Eucinostomus argenteus	10.00	300	14.68
Chloroscombrus chrysurus	6.60	3096	12.63
Synodus foetens	7.00	206	10.28
Penaeus brasiliensis	5.20	166	7.64
Lepopodium profundorum	3.60	140	5.29
Cynoscion jamaicensis	3.40	20	4.99
Syacium sp.	2.00	336	4.11
Porichthys sp	2.40	260	3.52
Sardinella aurita	2.00	40	2.94
Micropogonias furnieri	2.00	12	2.94
Diplectrum radiale	1.80	80	2.64
Selar crumenophthalmus	1.60	22	2.35
Callinectes sp	1.40	188	2.06
Upeneus parvus	1.40	76	2.06
Prionotus stearnsi	1.40	142	2.06
Hemicaranx amblyrhynchus	1.20	12	1.76
Echeneis naucrates	1.00	6	1.47
Rhinobatos parcellens	1.00	2	1.47
Opisthonema oglinum	1.00	12	1.47
Dactylopterus volitans	1.00	36	1.47
ROMULIDAE	0.80	40	1.17
Rhomboplites aurorubens	0.80	24	1.17
Leiigo plei	0.60	20	0.88
Sphyrana plicatilis	0.60	4	0.88
Haemulon steindachneri	0.60	2	0.88
Decapterus punctatus	0.60	18	0.88
Priacanthus armatus	0.60	8	0.88
Penaeus notialis	0.40	4	0.59
Citharusichthys sp	0.40	12	0.59
Symphurus plagiosa	0.40	10	0.59
Ophidion sp.	0.40	14	0.59
Prionotus punctatus	0.40	18	0.59
Scorpaena aqasizi	0.30	12	0.44
Aluterus monoceros	0.30	2	0.44
Diplectrum formosum	0.30	6	0.44
Calappa sp	0.30	4	0.44
Gymnarchus nudus	0.20	2	0.29
Lutjanus purpureus	0.20	2	0.29
Ogcocephalus parvus	0.10	2	0.15
Zaliotus magintyi	0.00	4	
Total	34.05	100.00	

PROJECT STATION: 653
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 725 Long W 5750
 TIME: start stop duration Purpose code: 3
 LOG : 7783.20 7784.60 1.40 Area code : 2
 FDEPTH: 22 22 GearCond. code:
 BDEPTH: 22 22 Validity code:
 Towing dir: 160° Wire out: 100 m Speed: 28 kn*10

Sorted: 35 Kg Total catch: 35.95 CATCH/HOUR: 71.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Eucinostomus argenteus	12.00	1176	16.69
Upeneus parvus	9.40	624	13.07
Sphyrana guachancho	6.00	22	11.13
Penaeus brasiliensis	5.00	16	6.95
Chloroscombrus chrysurus	4.00	176	6.68
Prionotus punctatus	4.00	264	5.56
Scomberomorus cavalla	3.80	26	5.29
Callinectes sp	3.60	28	4.17
Porichthys sp	3.00	6	4.17
Conodon nobilis	2.60	14	3.62
Hemicaranx amblyrhynchus	2.20	80	3.06
Penaeus subtilis	2.20	10	2.78
Cynoscion jamaicensis	1.60	6	2.23
TORPEDINIDAE	1.40	28	1.95
Penaeus notialis	1.20	64	1.67
Syacium micrurus	1.00	116	1.39
Synodus foetens	0.80	6	1.11
Micropogonias furnieri	0.80	26	1.11
Diplectrum formosum	0.60	34	1.11
Haemulon sp.	0.60	12	0.83
Ophidion sp.	0.60	12	0.83
Lepopodium profundorum	0.60	12	0.83
Symphurus plagiosa	0.30	6	0.42
Acanthostracion quadricornis	0.00	4	
Dactylopterus volitans	0.00	2	
Prionotus stearnsi	0.00	2	
Spiroceroides sp	0.00	6	
Total	35.95	99.99	

PROJECT STATION: 654
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 704 Long W 5757
 TIME: start stop duration Purpose code: 3
 LOG : 7807.40 7808.70 1.30 Area code : 2
 FDEPTH: 17 17 GearCond. code:
 BDEPTH: 17 17 Validity code:
 Towing dir: 330° Wire out: 100 m Speed: 24 kn*10

Sorted: 35 Kg Total catch: 131.02 CATCH/HOUR: 262.04

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Anchoa sp	70.00	87500	26.71
SCIAENIDAE	46.20	6644	17.63
Prionotus punctatus	25.20	6804	9.62
Rhizopteron dorsus	24.40	56	9.31
RAJIDAE	14.00	2	5.34
Ctenosciaena gracilicirrus	11.20	2632	4.77
Cynoscion virescens	10.40	14	3.97
Trichiurus lepturus	10.40	190	3.97
GRAYS	8.60	2682	3.28
Isopisthus parvipinnis	7.00	106	2.67
Micropogonias furnieri	7.00	8	2.67
Bagre bagre	7.00	36	2.67
Macraron ancylodon	5.60	22	2.14
Penaeus subtilis	3.50	274	1.34
Cynoscion jamaicensis	3.40	50	1.30
Chloroscombrus chrysurus	2.80	22	1.07
Uairdella sp	2.00	14	0.76
Selene spixii	1.40	22	0.53
Polydactylus oligodon	0.70	14	0.27
Pelona harroweri	0.56	1064	0.21
Shrimps, small, non comm.	0.34	266	0.13
Anchoa spixii	0.34	22	0.13
Diplectrum radiale	0.00	80	
Opisthonema oglinum	0.00	42	
Zaliotus magintyi	0.00	14	
Porichthys sp	0.00	350	
Total	131.02	99.99	

PROJECT STATION: 655
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 719 Long W 5806
 TIME: start stop duration Purpose code: 3
 LOG : 7823.90 7825.10 1.20 Area code : 2
 FDEPTH: 22 23 GearCond. code:
 BDEPTH: 22 23 Validity code:
 Towing dir: 10° Wire out: 100 m Speed: 26 kn*10

Sorted: 45 Kg Total catch: 390.20 CATCH/HOUR: 780.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion jamaicensis	127.60	1546	16.35
Harengula jaguana	90.00	3016	11.53
Macraron ancylodon	84.00	526	10.76
Anchoa hepsetus	72.00	14400	9.23
Chirocentron bleekeri	72.00	9450	9.23
Selene spixii	60.00	450	7.69
Trichiurus lepturus	60.00	466	7.69
Pelona harroweri	58.60	6796	7.51
Sphyrna tiburo	36.00	12	4.61
Scomberomorus brasiliensis	25.60	22	3.28
Micropogonias furnieri	25.60	76	3.28
Diapterus rhombeus	18.00	106	2.31
Sphyrna tudes	12.80	2	1.64
Cynoscion acoupa	7.80	4	1.00
Carcharhinus limbatus	7.00	2	0.90
Isopisthus parvipinnis	6.60	136	0.87
Arius grandicaudis	6.20	4	0.79
Scomberomorus cavalla	4.40	6	0.56
Lutjanus breviceps	3.00	16	0.38
Bagre bagre	3.00	16	0.38
Penaeus notialis	0.00	30	
Anchoa spixii	0.00	226	
Anchoa spixii	0.00	136	
Total	390.20	99.99	

PROJECT STATION: 656
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 736 Long W 5813
 TIME: start stop duration Purpose code: 3
 LOG : 7846.40 7847.70 1.30 Area code : 2
 FDEPTH: 25 25 GearCond. code:
 BDEPTH: 25 25 Validity code:
 Towing dir: 280° Wire out: 150 m Speed: 27 kn*10

Sorted: 50 Kg Total catch: 58.70 CATCH/HOUR: 117.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	65.40	1020	55.71
Caranx crysos	20.00	32	17.04
Scomberomorus cavalla	9.60	20	7.67
Leiigo plei	6.40	1288	5.45
Opisthonema oglinum	5.00	134	4.26
Sphyrana plicatilis	1.80	12	1.53
Sphyrana guachancho	1.40	4	1.19
Rhinobatos parcellens	1.20	2	1.02
Diplectrum bivittatum	1.20	32	1.02
Upeneus parvus	1.00	70	0.85
Synodus foetens	1.00	6	0.85
Micropogonias furnieri	1.00	2	0.85
Scomberomorus brasiliensis	0.60	2	0.51
Caranx hippos	0.40	2	0.34
Eucinostomus argenteus	0.20	8	0.17
Harengula jaguana	0.00	4	
Total	58.70	98.46	

PROJECT STATION: 657
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 750 Long W 5812
 TIME: start stop duration Purpose code: 3
 LOG : 7869.60 7873.70 1.10 Area code : 2
 FDEPTH: 18 17 GearCond. code:
 BDEPTH: 18 17 Validity code:
 Towing dir: 40° Wire out: 100 m Speed: 22 kn*10

Sorted: 29 Kg Total catch: 212.60 CATCH/HOUR: 425.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	105.60	5412	24.84
Sphyrana guachancho	105.60	346	24.84
Opisthonema oglinum	32.40	4224	19.57
Hemicaranx amblyrhynchus	66.60	848	14.11
Scomberomorus cavalla	49.80	72	11.71
Upeneus parvus	7.80	564	1.83
Caranx crysos	7.20	84	1.63
Cynoscion jamaicensis	6.60	12	1.41
Sardinella aurita	0.00	24	
Total	425.20	100.00	

PROJECT STATION: 658
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 754 Long W 5806
 TIME: start stop duration Purpose code: 3
 LOG : 7875.70 7877.30 1.60 Area code : 2
 FDEPTH: 40 41 GearCond. code:
 BDEPTH: 40 41 Validity code:
 Towing dir: 130° Wire out: 250 m Speed: 34 kn*10

Sorted: 28 Kg Total catch: 262.05 CATCH/HOUR: 524.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	375.20	13200	71.59
Scomberomorus cavalla	80.60	130	15.30
Lutjanus purpureus	21.00	54	4.01
Lutjanus synagris	12.20	40	2.33
Priacanthus armatus	7.00	42	1.34
Rhomboplites aurorubens	6.40	40	1.22
Balistes vetula	5.60	14	1.07
Selar crumenophthalmus	5.60	42	1.07
Eucinostomus argenteus	2.80	56	0.53
Opisthonema oglinum	2.80	14	0.53
Synodus poeyi	2.10	14	0.40
Selene spixii	1.40	14	0.27
Diapterus rhombeus	1.40	14	0.27
Total	524.10	100.00	

PROJECT STATION: 659
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 753 Long W 5757
 TIME : 15:00 start stop duration 1 (min) Purpose code: 1
 LOG : 7708.50 7708.60 0.10 Area code : 2
 FDEPTH: 50 50 GearCond.code: 5
 BDEPTH: 50 50 Validity code: 4
 Towing dir: 130° Wire out: 306 m Speed: 30 kn*10
 Sorted: 16 Kg Total catch: 16.30 CATCH/HOUR: 978.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	660.00	120	67.40	
Rhizoprionodon porosus	90.00	60	9.20	
Calamus pennatula	72.00	180	7.36	
Lutjanus synagris	60.00	120	6.13	
Lutjanus purpurus	18.00	60	1.84	
Rhomboplites aurorubens	18.00	120	1.84	
Chloroscombrus chrysurus	12.00	360	1.23	
Decapterus punctatus	12.00	240	1.23	
Priacanthus arenatus	12.00	60	1.23	
Eucinostomus argenteus	9.00	60	0.92	
Opisthonema oglinum	9.00	180	0.92	
Solar crumenophthalmus	6.00	60	0.61	
Total	978.00		99.99	

PROJECT STATION: 663
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 807 Long W 5818
 TIME : 00:20 start stop duration 30 (min) Purpose code: 3
 LOG : 7966.90 7968.50 1.60 Area code : 2
 FDEPTH: 45 45 GearCond.code: 2
 BDEPTH: 45 45 Validity code: 4
 Towing dir: 120° Wire out: 250 m Speed: 34 kn*10
 Sorted: 28 Kg Total catch: 79.55 CATCH/HOUR: 159.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	25.50	4056	16.03	
Rhomboplites aurorubens	18.00	136	11.31	140
Scomberomorus cavalla	16.00	2	10.43	
Calamus pennatula	12.50	26	7.86	
Eucinostomus argenteus	11.50	180	7.23	
Lutjanus purpurus	10.50	40	6.60	141
Acantbiostracion quadricornis	8.50	86	5.34	
Haemulon steindachneri	7.50	80	4.71	
Haemulon aurolineatum	5.00	540	3.14	
Upeneus parvus	5.00	60	3.14	
Priacanthus arenatus	5.00	106	3.14	
Dactylopterus volitans	4.00	26	2.51	
Haemulon aurolineatum	4.00	66	2.51	
Diplectrum radiale	3.50	4650	2.20	
Diplectrum formosum	3.50	4650	2.20	
Lepophidium pheromystax	3.50	720	2.20	
Callinectes sp	2.50	4060	1.57	
Prionotus punctatus	2.50	326	1.57	
Lepophidium profundorum	2.50	326	1.57	
Pristipomoides macrophthalmus	2.50	20	1.57	
Lutjanus synagris	2.00	6	1.26	
Fistularia petimba	1.00	6	0.63	
Penaeus brasiliensis	1.00	36	0.63	
Opisthonema oglinum	0.50	6	0.31	
Sardinella aurita	0.50	6	0.31	
Porichthys pauciradiatus	0.00	6		
Total	159.10		99.97	

PROJECT STATION: 660
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 800 Long W 5751
 TIME : 16:05 start stop duration 30 (min) Purpose code: 3
 LOG : 7890.60 7900.00 1.40 Area code : 2
 FDEPTH: 61 62 GearCond.code: 2
 BDEPTH: 61 62 Validity code: 4
 Towing dir: 120° Wire out: 350 m Speed: 28 kn*10
 Sorted: 2 Kg Total catch: 2.55 CATCH/HOUR: 5.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Loligo plei	3.00	396	74.51	134
Trachinocephalus myops	0.40	2	7.94	
Dactylopterus volitans	0.30	8	5.83	
Synodus foetens	0.20	6	3.92	
Fistularia petimba	0.20	2	3.92	
Decapterus tabl	0.20	2	3.92	
Total	5.10		99.99	

PROJECT STATION: 664
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 800 Long W 5824
 TIME : 02:09 start stop duration 30 (min) Purpose code: 3
 LOG : 7979.00 7981.20 1.40 Area code : 2
 FDEPTH: 36 40 GearCond.code: 2
 BDEPTH: 36 40 Validity code: 4
 Towing dir: 47° Wire out: 200 m Speed: 23 kn*10
 Sorted: 25 Kg Total catch: 63.76 CATCH/HOUR: 107.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	34.40	196	31.90	
Opisthonema oglinum	23.20	1570	21.50	
Eucinostomus argenteus	15.20	696	14.14	
Ctenosciaena gracilicirrus	7.60	144	7.07	
Lepophidium sp	3.20	156	2.90	
Chloroscombrus chrysurus	3.20	104	2.90	
Dactylopterus volitans	3.20	20	2.90	
Penaeus notialis	2.80	74	2.60	142
Rhizoprionodon porosus	2.80	12	1.86	
Peprilus paru	2.80	2	1.86	
Selene spixii	2.60	56	1.86	
Upeneus parvus	2.60	44	1.86	
Penaeus subtilis	1.40	66	1.30	143
Hemicaranx amblyrhynchus	1.20	8	1.12	
Polydactylus virginicus	0.80	8	0.74	
Synodus poeyi	0.80	8	0.74	
Sphyraena guancha	0.80	4	0.74	
Sphyraena cucullata	0.80	4	0.74	
Diapterus rhombus	0.40	8	0.37	
Prionotus punctatus	0.20	12	0.30	
Harengula jaguana	0.20	12	0.19	
Total	107.52		100.00	

PROJECT STATION: 661
 DATE: 18/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 803 Long W 5747
 TIME : 17:32 start stop duration 30 (min) Purpose code: 3
 LOG : 7907.60 7908.80 1.20 Area code : 2
 FDEPTH: 76 75 GearCond.code: 2
 BDEPTH: 76 75 Validity code: 4
 Towing dir: 285° Wire out: 350 m Speed: 25 kn*10
 Sorted: 7 Kg Total catch: 7.25 CATCH/HOUR: 14.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Upeneus parvus	7.40	282	51.03	135
Loligo plei	4.80	460	33.10	136
Arionna bondi	0.60	40	4.14	
Priacanthus arenatus	0.40	14	2.76	
Synodus poeyi	0.40	10	2.76	
Trachurus lachani	0.30	12	2.07	
Decapterus macarellus	0.20	4	1.38	
Pristipomoides macrophthalmus	0.20	2	1.38	
Dactylopterus volitans	0.20	8	1.38	
Penaeus brasiliensis	0.00	2		
Solar crumenophthalmus	0.00	4		
Arionna regulus	0.00	2		
Total	14.50		100.00	

PROJECT STATION: 665
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 754 Long W 5830
 TIME : 03:59 start stop duration 30 (min) Purpose code: 3
 LOG : 7993.50 7995.10 1.60 Area code : 2
 FDEPTH: 20 21 GearCond.code: 2
 BDEPTH: 20 21 Validity code: 4
 Towing dir: 140° Wire out: 160 m Speed: 33 kn*10
 Sorted: 27 Kg Total catch: 319.76 CATCH/HOUR: 639.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon melanurum	283.80	5790	44.39	
Cynoscion jamaicensis	105.60	1364	16.52	
Ctenosciaena gracilicirrus	39.60	2904	6.19	
Conodon nobilis	24.20	594	3.70	
Macrurus ancylodon	17.60	110	2.75	
Selene spixii	17.60	110	2.75	
Umbrina menthicirrus	15.40	198	2.41	
Umbrina coroides	15.40	198	2.41	
Microgogonius furnieri	14.80	42	2.19	144
Haemulon aurolineatum	13.20	44	2.06	
Haemulon steindachneri	11.00	44	1.72	
Chaetodipterus faber	8.80	110	1.38	
Lagocephalus lauivigatus	6.60	66	1.03	
Trichurus lepturus	6.60	110	1.03	
Prionotus punctatus	6.60	198	1.03	
Lutjanus synagris	6.00	12	0.94	
Cynoscion virescens	5.60	12	0.88	
Arius grandicassis	5.50	22	0.86	
Chirocentron bleekermanus	4.40	1034	0.69	
Anchoa spinifer	4.40	396	0.69	
Chloroscombrus chrysurus	4.40	88	0.69	
Diplectrum radiale	4.40	198	0.69	
Hemicaranx amblyrhynchus	4.40	22	0.69	
Scomberomorus cavalla	4.40	2	0.69	
Diapterus rhombus	3.30	44	0.52	
Opisthonema oglinum	3.30	44	0.52	
Bayle bayle	2.20	22	0.34	
Polydactylus virginicus	1.10	22	0.17	
Scorpaena aspidi	0.00	22		
Total	639.40		100.01	

PROJECT STATION: 662
 DATE: 16/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 810 Long W 5812
 TIME : 22:55 start stop duration 30 (min) Purpose code: 3
 LOG : 7950.50 7959.80 1.30 Area code : 2
 FDEPTH: 55 56 GearCond.code: 2
 BDEPTH: 55 56 Validity code: 4
 Towing dir: 280° Wire out: 300 m Speed: 25 kn*10
 Sorted: 5 Kg Total catch: 16.05 CATCH/HOUR: 33.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dactylopterus volitans	5.20	304	15.43	
Penaeus brasiliensis	4.40	178	13.06	137
Upeneus parvus	3.20	100	9.50	
Priacanthus arenatus	3.00	80	8.90	138
Synodus poeyi	2.60	488	8.31	
Sardinella aurita	1.80	88	5.34	
Acanthostracion quadricornis	1.80	20	5.34	
Porichthys pauciradiatus	1.60	128	4.75	
Lepophidium pheromystax	1.60	140	4.75	
Trachinocephalus myops	1.20	52	3.56	
Rhomboplites aurorubens	1.20	74	3.56	139
Cynoscion jamaicensis	0.90	2	2.67	
Pristipomoides macrophthalmus	0.80	100	2.37	
BOTHIDAE:	0.60	64	1.78	
Eucinostomus argenteus	0.60	8	1.76	
Lepophidium sp	0.60	24	1.76	
Solar crumenophthalmus	0.40	4	1.19	
Haemulon aurolineatum	0.40	12	1.19	
Echeneis naucrates	0.40	2	1.19	
Chloroscombrus chrysurus	0.20	4	0.59	
SOLENOCEPHALAE:	0.20	296	0.59	
Sphaeroides sp	0.20	12	0.59	
Prionotus sp	0.20	32	0.59	
Decapterus punctatus	0.16	8	0.47	
Haemulon boschmae	0.12	8	0.36	
SCYLLARIDAE:	0.04	28	0.12	
Zaliotus sp	0.00	4		
Ogcocephalus nasutus	0.00	4		
Prionotus punctatus	0.00	8		
Total	33.62		99.76	

PROJECT STATION: 666
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 759 Long W 5035
 start stop duration
 TIME : 06:06 06:36 30 (min) Purpose code: 3
 LOG : 8010.50 8011.60 1.10 Area code : 2
 FDEPTH: 20 20 GearCond.code: 2
 BDEPTH: 20 20 Validity code:
 Towing dir: 274° Wire out: 100 m Speed: 22 kn*10
 Sorted: 51 Kg Total catch: 210.80 CATCH/HOUR: 421.60

PROJECT STATION: 669
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 815 Long W 5048
 start stop duration
 TIME : 11:21 11:51 30 (min) Purpose code: 3
 LOG : 8048.00 8049.50 1.50 Area code : 2
 FDEPTH: 31 34 GearCond.code: 2
 BDEPTH: 31 34 Validity code:
 Towing dir: 25° Wire out: 200 m Speed: 31 kn*10
 Sorted: 19 Kg Total catch: 46.40 CATCH/HOUR: 92.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Diapterus rhombeus	31.00	456	19.21	146
Chirocentrodon bleekeri	68.40	28044	16.22	
Sphyræna guachancho	60.00	100	14.23	145
Scomberomorus brasiliensis	36.00	50	8.54	148
Anchoa hepsetus	34.20	29352	0.11	
Cynoscion stialis	24.00	42	5.69	
Umbrina coroides	19.80	42	4.70	
Selene spixii	18.60	96	4.41	
Opisthonema oglinum	13.80	5856	3.27	
Scomberomorus cavalla	12.00	24	2.05	147
Cynoscion jamaicensis	8.40	72	1.99	
Opisthonema oglinum	7.20	90	1.71	
Caranx hippos	6.60	36	1.57	
Carcharhinus limbatus	6.00	2	1.42	
Rhizoprionodon porosus	6.00	12	1.42	
Hemicarax amblyrhynchus	4.60	24	1.14	
Conodon nobilii	3.60	24	0.85	
Selene vomer	3.00	42	0.71	
Micropogonias furnieri	3.00	6	0.71	
Chloroscombrus chrysurus	2.40	30	0.57	
Sphyræna picudilla	1.60	12	0.38	
Selar crumenophthalmus	0.60	6	0.14	
Menticirrhus americanus	0.60	6	0.14	
Anchoa spinifer	0.00	6		
Peprilus paru	0.00	6		
Total	421.60		99.98	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selene spixii	16.00	312	17.24	156
Eucinostomus argenteus	12.40	172	13.36	
Scomberomorus cavalla	8.40	32	9.05	
Sphyræna guachancho	8.40	60	9.05	
Lutjanus synagris	6.80	20	7.33	157
Dasyatis sp	6.00	2	6.47	155
Chloroscombrus chrysurus	4.80	84	5.17	
Micropogonias furnieri	4.40	12	4.74	
Albula nemoptera	4.00	24	4.31	
Trichurus lepturus	3.60	6	3.80	
Sphyræna picudilla	3.60	36	3.80	
Synodus poeyi	2.80	20	3.02	
Opisthonema oglinum	2.40	96	2.59	
Peprilus paru	2.40	10	1.72	
Rhizoprionodon porosus	1.60	16	1.29	
Gliopites saliens	1.20	8	1.29	
Chaetodipterus faber	0.80	4	0.86	
Diapterus rhombeus	0.80	4	0.86	
Isopisthus parvipinnis	0.60	4	0.65	
Caranx crosus	0.60	4	0.65	
Selar crumenophthalmus	0.60	4	0.65	
Hemicarax amblyrhynchus	0.40	4	0.43	
Penaeus notialis	0.20	2	0.22	
Total	92.80		100.01	

PROJECT STATION: 667
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 808 Long W 5036
 start stop duration
 TIME : 08:03 08:33 30 (min) Purpose code: 3
 LOG : 8024.90 8026.10 1.20 Area code : 2
 FDEPTH: 37 31 GearCond.code: 2
 BDEPTH: 37 31 Validity code:
 Towing dir: 257° Wire out: 200 m Speed: 27 kn*10
 Sorted: 46 Kg Total catch: 46.60 CATCH/HOUR: 93.60

PROJECT STATION: 670
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 823 Long W 5054
 start stop duration
 TIME : 11:21 11:51 30 (min) Purpose code: 3
 LOG : 8063.80 8065.00 1.20 Area code : 2
 FDEPTH: 32 32 GearCond.code: 2
 BDEPTH: 32 32 Validity code:
 Towing dir: 267° Wire out: 150 m Speed: 24 kn*10
 Sorted: 25 Kg Total catch: 100.70 CATCH/HOUR: 201.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyræna picudilla	42.80	394	45.73	149
Chloroscombrus chrysurus	17.00	500	18.80	150
Scomberomorus cavalla	6.80	12	6.41	
Hemicarax amblyrhynchus	4.00	36	4.27	
Micropogonias furnieri	3.80	12	4.06	
Peprilus paru	3.00	24	3.21	
Trachinotus cayennensis	2.80	8	2.99	
Rhizoprionodon porosus	2.40	4	2.56	
Dasyatis guttata	2.00	2	2.14	
Eucinostomus argenteus	1.60	30	1.71	
Cynoscion jamaicensis	1.60	8	1.71	
Selene spixii	1.40	16	1.50	
Opisthonema oglinum	1.20	26	1.28	
Selar crumenophthalmus	1.00	6	1.07	
Synodus foetans	1.00	6	1.07	
Trichurus lepturus	0.40	12	0.43	
Diapterus rhombeus	0.40	2	0.43	
Loligo plei	0.30	34	0.32	
Loligo pealii	0.30	40	0.32	
Total	93.60		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	48.00	160	23.83	159
Lutjanus purpureus	26.00	90	12.91	158
Scomberomorus cavalla	25.00	46	12.41	
Chloroscombrus chrysurus	24.00	240	11.92	160
Albula nemoptera	16.40	72	8.14	
Eucinostomus argenteus	7.60	52	3.77	
Caranx hippos	7.60	36	3.77	
Hemicarax amblyrhynchus	6.80	24	3.38	
Diapterus rhombeus	6.80	28	3.38	
Selene spixii	6.00	40	2.98	
Rhizoprionodon porosus	5.60	12	2.78	
Sphyræna picudilla	5.60	32	2.78	
Sphyræna guachancho	4.80	8	2.38	
Chaetodipterus faber	4.00	24	1.99	
Rachycentron canadus	2.00	4	0.99	
Trichurus lepturus	1.20	4	0.60	
Gliopites saliens	1.20	8	0.60	
Selene vomer	1.00	12	0.50	
Selar crumenophthalmus	0.80	4	0.40	
Synodus poeyi	0.60	4	0.30	
Opisthonema oglinum	0.40	8	0.20	
JELLYFISH				
Total	201.40		100.01	

PROJECT STATION: 668
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 800 Long W 5046
 start stop duration
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 8034.00 8035.30 1.30 Area code : 2
 FDEPTH: 17 17 GearCond.code: 2
 BDEPTH: 17 17 Validity code:
 Towing dir: 250° Wire out: 100 m Speed: 27 kn*10
 Sorted: 31 Kg Total catch: 138.90 CATCH/HOUR: 277.80

PROJECT STATION: 671
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 830 Long W 5903
 start stop duration
 TIME : 15:51 16:05 14 (min) Purpose code: 3
 LOG : 8084.40 8084.90 0.50 Area code : 2
 FDEPTH: 40 38 GearCond.code: 8
 BDEPTH: 40 38 Validity code: 4
 Towing dir: 140° Wire out: 200 m Speed: 30 kn*10
 Sorted: 105 Kg Total catch: 15.30 CATCH/HOUR: 65.57

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Harengula jaguana	78.40	2808	28.22	
Anchoa lyolepis	40.80	8536	14.69	
Pellona harroweri	29.20	16552	10.51	
Trichurus lepturus	16.00	304	5.76	
Sphyræna picudilla	13.60	120	4.90	
Pomatomus saltatrix	12.00	16	4.32	
Cynoscion acoupa	9.40	12	3.30	151
Micropogonias furnieri	8.40	28	3.02	154
Hemicarax amblyrhynchus	8.00	40	2.80	
Macrodon ancylodon	7.20	56	2.59	
Pellona harroweri	6.40	544	2.30	
Scomberomorus brasiliensis	5.60	16	2.02	
Chirocentrodon bleekeri	5.60	1576	2.02	
Anchoa spinifer	5.00	1752	2.02	
Sphyræna guachancho	4.80	16	1.73	
Opisthonema oglinum	3.20	208	1.15	
Cynoscion similis	3.00	4	1.00	152
Anchoa hepsetus	2.80	1112	1.01	
Umbrina coroides	2.60	8	0.94	153
Bage bage	2.40	8	0.86	
Menticirrhus americanus	2.40	8	0.86	
Selene spixii	2.40	40	0.86	
Inopisthus parvipinnis	2.00	72	0.72	
Polydactylus virginicus	1.60	16	0.50	
Peprilus paru	1.60	24	0.50	
Penaeus schmitti	0.80	56	0.29	
Paralichthys brasiliensis	0.80	16	0.29	
Cynoscion jamaicensis	0.80	40	0.29	
Lycengraulis grossidens	0.40	88	0.14	
Total	277.80		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
OPHICHTHIDAE	19.71	13	30.06	
Cynopicticus savanna	15.00	21	22.08	
Rhizoprionodon porosus	8.57	9	13.07	
Cynoscion jamaicensis	5.57	60	8.49	
Penaeus subtilis	4.29	34	6.54	
Upeneus parvus	3.43	17	2.94	
Scomberomorus cavalla	1.93	43	1.97	
Selene spixii	1.29	9	1.63	
Cyclopssetta chittendeni	1.07	17	1.63	
Sphyræna picudilla	0.64	9	0.98	
Eucinostomus argenteus	0.64	9	0.98	
Opisthonema oglinum	0.64	10	0.98	
Penaeus notialis	0.64	30	0.66	
Prionotus punctatus	0.43	4	0.66	
Caranx hippos	0.43	4	0.66	
Chloroscombrus chrysurus	0.43	17	0.66	
JELLYFISH				
Total	65.57		100.02	

PROJECT STATION: 672
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 841
 start stop duration Long W 5901
 TIME : 10:10 18:40 30 (min) Purpose code: 3
 LOG : 8102.60 8103.50 0.50 Area code : 2
 FDEPTH: 79 75 GearCond. code:
 BDEPTH: 77 75 Validity code:
 Towing dir: 252° Wire out: 450 m Speed: 19 kn*10

Sorted: 25 Kg Total catch: 61.70 CATCH/HOUR: 123.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalus	49.20	748	39.87	161
Synodus poeyi	18.00	332	14.59	
Scomberomorus cavalla	10.40	2	8.43	
Lutjanus purpurus	8.60	24	6.97	162
Upeneus parvus	6.00	100	5.51	
Haemulon steindachneri	4.00	40	3.24	
Lepophidium profundorum	3.70	204	2.59	
Cynoscion jamaicensis	2.90	16	2.27	
Serranus phoebe	2.40	328	1.94	
Prionotus punctatus	2.40	29	1.94	
Rhomboplites aurorubens	2.00	20	1.62	
Prionotus boani	2.00	60	1.62	
Scorpaena brasiliensis	1.60	6	1.30	
Priacanthus arenatus	1.60	20	1.30	
Lutjanus purpurus	1.20	16	0.97	
Eucinostomus argenteus	1.20	26	0.97	
Penaeus notialis	1.00	16	0.81	
Ogcocephalus nasutus	0.80	4	0.65	
Cyclopssetta chittendeni	0.80	4	0.65	
Porichthys pauciradiatus	0.80	72	0.65	
Prionotus steurnsi	0.80	48	0.65	
Syacium sp.	0.60	32	0.49	
Selar crumenophthalmus	0.40	8	0.32	
Penaeus brasiliensis	0.40	26	0.32	
Pareques sp.	0.40	4	0.32	
Total	123.40		99.99	

PROJECT STATION: 673
 DATE: 19/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 846
 start stop duration Long W 5929
 TIME : 22:59 23:39 30 (min) Purpose code: 3
 LOG : 8147.50 8148.30 0.60 Area code : 2
 FDEPTH: 57 55 GearCond. code:
 BDEPTH: 57 55 Validity code:
 Towing dir: 253° Wire out: 300 m Speed: 16 kn*10

Sorted: 25 Kg Total catch: 87.05 CATCH/HOUR: 175.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Peprilus paru	48.00	276	27.38	
OPHIIDIAE	43.20	1764	24.64	
Cynoscion jamaicensis	15.00	106	6.56	
Prionotus punctatus	14.20	72	6.82	
Lutjanus purpurus	9.40	14	5.36	165
Cynoscion similis	9.00	6	5.13	
Synodus poeyi	6.00	13	3.42	
Serranus phoebe	6.00	468	3.42	
Mustelus canis	4.80	12	2.74	
Penaeus subtilis	4.20	206	2.40	163
Ctenosciaena gracilicirrus	3.60	66	2.05	
Eucinostomus argenteus	1.80	64	1.03	
Upeneus parvus	1.80	24	1.03	
Penaeus notialis	1.80	52	1.03	164
Pristipomoides macrophthalus	1.50	12	0.86	
Trichurus lepturus	1.20	24	0.68	
Haemulon steindachneri	1.20	24	0.68	
Syacium sp.	1.20	48	0.68	
Porichthys pauciradiatus	1.20	144	0.68	
Haemulon jaguana	0.90	18	0.51	
Hoplinis sp.	0.60	12	0.34	
Cyclopssetta chittendeni	0.60	6	0.34	
Selene spixli	0.60	18	0.34	
Chloroscombrus chrysurus	0.60	18	0.34	
Ogcocephalus sp.	0.60	12	0.34	
Lagocephalus laevigatus	0.30	6	0.17	
Prionotus steurnsi	0.60	6	0.17	
Total	175.30		99.97	

PROJECT STATION: 674
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 845
 start stop duration Long W 5933
 TIME : 00:10 00:12 2 (min) Purpose code: 2
 LOG : 8353.50 8353.60 0.10 Area code : 2
 FDEPTH: 46 46 GearCond. code: 5
 BDEPTH: 40 46 Validity code:
 Towing dir: 253° Wire out: 150 m Speed: 30 kn*10

Sorted: 0 Kg Total catch: 0.00 CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Total	0.00			

PROJECT STATION: 675
 DATE: 20/ 8/88 GEAR TYPE: PT No:4 POSITION: Lat N 841
 start stop duration Long W 5936
 TIME : 01:39 01:54 15 (min) Purpose code: 1
 LOG : 8163.10 8163.60 0.50 Area code : 2
 FDEPTH: 0 0 GearCond. code:
 BDEPTH: 20 21 Validity code:
 Towing dir: 325° Wire out: 50 m Speed: 18 kn*10

Sorted: 40 Kg Total catch: 343.65 CATCH/HOUR: 1374.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Macrodon ancylodon	490.00	2184	35.65	166
Rhizoprionodon porosus	218.40	303	15.85	
Anchoa mitchilli	84.00	12064	6.11	
Anchoa hepsetus	67.20	30764	4.09	
Selene spixli	65.00	952	4.79	
Isopisthus parvipinnis	58.00	1260	4.28	
Trichurus lepturus	54.40	868	3.96	
Arius grandicaudis	47.60	84	3.46	
Dagre marinus	39.20	560	2.85	
Haemulon jaguana	37.80	924	2.75	
Peprilus paru	37.80	336	2.75	
Dagre bagre	36.40	392	2.65	
Neomatalaema schmitti	25.20	15540	1.03	
Stellifer sp.	25.20	1008	1.03	
Hobris microps	22.40	140	1.63	
Cynoscion viruscens	22.40	56	1.63	
Anchoa lyolepis	21.00	4782	1.53	
SOLENOCIDAE	12.60	1426	0.52	
Hemicaranx amblyrhynchus	8.40	26	0.61	
Total	1374.60		100.01	

PROJECT STATION: 676
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 844
 start stop duration Long W 5936
 TIME : 02:36 03:06 30 (min) Purpose code: 3
 LOG : 8157.20 8160.20 1.00 Area code : 2
 FDEPTH: 34 39 GearCond. code:
 BDEPTH: 34 39 Validity code:
 Towing dir: 345° Wire out: 200 m Speed: 16 kn*10

Sorted: 13 Kg Total catch: 182.26 CATCH/HOUR: 364.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	120.00	1902	32.92	
Cynoscion similis	40.00	528	11.19	
Trichurus lepturus	36.00	192	9.80	
Stellifer sp.	31.20	648	8.56	
Cynoscion leiarchus	26.40	24	7.24	
Stellifer sp.	21.00	2112	5.76	
Chirocentron bleekeriannus	16.80	4416	4.61	
Cynoscion viruscens	16.60	26	4.55	167
Anchoa sp.	10.56	2904	2.90	
Paloua harroweri	10.56	4540	2.90	
Albula nemoptera	7.20	48	1.98	
Isopisthus parvipinnis	6.00	96	1.65	
Sphyrna lewini	6.00	2	1.65	
Diapterus rhombeus	5.20	52	1.43	
Haemulon steindachneri	3.60	24	0.99	
Diplobatys guamachensis	3.00	2	0.82	
Bagre bagre	2.40	24	0.66	
Lepophidium sp.	1.20	48	0.33	
Porichthys pauciradiatus	0.60	52		
Total	364.52		100.02	

PROJECT STATION: 677
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 853
 start stop duration Long W 5930
 TIME : 04:30 05:00 30 (min) Purpose code: 3
 LOG : 8180.60 8181.60 1.00 Area code : 2
 FDEPTH: 69 69 GearCond. code:
 BDEPTH: 69 69 Validity code:
 Towing dir: 310° Wire out: 400 m Speed: 20 kn*10

Sorted: 15 Kg Total catch: 43.50 CATCH/HOUR: 87.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lepophidium sp.	17.60	696	20.23	
Synodus poeyi	16.80	260	19.31	
Callinectes sp.	9.40	10	10.80	
Serranus phoebe	8.16	652	9.38	
Cynoscion jamaicensis	7.60	92	8.74	
BIVALVES	6.80		7.82	
Cynoscion similis	5.20	36	5.98	
Porichthys pauciradiatus	4.00	204	4.60	
Pristipomoides macrophthalus	4.00	232	4.60	
Mustelus manami	2.40	8	2.76	
Penaeus notialis	1.20	26	1.38	168
Ogcocephalus nasutus	0.80	4	0.92	
Penaeus wuittilis	0.80	22	0.92	169
Cyclopssetta chittendeni	0.60	14	0.69	
Haemulon steindachneri	0.40	20	0.46	
Trichurus lepturus	0.40	12	0.46	
Shrimps, small, non comm.	0.20	6	0.23	
Upeneus parvus	0.20	14	0.23	
Eucinostomus argenteus	0.12	14	0.14	
Syacium sp.	0.12	28	0.14	
ANTENNARIIDAE	0.12	14	0.14	
Total	86.92		99.93	

PROJECT STATION: 678
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 902
 start stop duration Long W 5946
 TIME : 11:24 11:44 20 (min) Purpose code: 3
 LOG : 8243.30 8244.10 0.80 Area code : 3
 FDEPTH: 65 64 GearCond. code:
 BDEPTH: 65 64 Validity code:
 Towing dir: 256° Wire out: 300 m Speed: 23 kn*10

Sorted: 17 Kg Total catch: 17.85 CATCH/HOUR: 53.55

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	15.90	144	29.69	170
Upeneus parvus	8.40	38	15.69	
Scomberomorus cavalla	6.90	9	12.89	
Sphyrna plicatilis	6.60	42	11.26	171
Hemicaranx amblyrhynchus	3.30	9	6.16	
Loligo plect	2.40	234	4.48	
Saurida normani	2.40	27	4.48	
Loligo plect	1.50	66	2.80	
Trichurus lepturus	1.50	18	2.80	
Cynoscion jamaicensis	1.50	15	2.80	
Priacanthus arenatus	1.05	6	1.96	
Eucinostomus argenteus	0.90	15	1.68	
Albula nemoptera	0.60	3	1.12	
Lutjanus purpureus	0.45	3	0.84	
Trachurus lathami	0.45	6	0.84	
Penaeus notialis	0.15	3	0.20	
Pistularia petimba	0.15	3	0.20	
Total	53.55		99.99	

PROJECT STATION: 679
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 901 Long W 5956
 start stop duration
 TIME : 13:00 13:30 30 (min) Purpose code: 3
 LOG : 8254.50 8256.30 1.80 Area code : 3
 FDEPTH: 54 55 GearCond. code: 3
 DDEPTH: 54 55 Validity code:
 Towing dir: 256° Wire out: 300 m Speed: 36 kn*10

Sorted: 24 Kg Total catch: 49.26 CATCH/HOUR: 98.52

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Harengula jaguana	13.20	494	13.40
Trichiurus lepturus	10.00	136	10.96
Upeneus parvus	0.80	160	0.93
Selene spixii	0.40	240	0.53
Saurida noronae	0.60	124	0.69
Mustelus higmani	0.00	16	0.09
Peprilus paru	0.00	52	0.09
Sphyrana picudilla	5.20	40	5.20
Hemicaranx amblyrhynchus	4.80	16	4.87
Lutjanus synagris	4.80	4	4.87
Rucinostomus argenteus	3.20	220	3.25
Scomberomorus cavalla	2.80	4	2.84
Cynoscion jamaicensis	2.80	20	2.84
Pomaxus subtilis	2.40	120	2.44
Prionotus arenatus	2.00	60	2.03
Prionotus punctatus	2.00	16	2.03
Selar crumenophthalmus	1.60	44	1.62
Ctenosciaena gracilicirrus	1.60	20	1.62
Loligo pealei	1.60	84	1.62
Pemaeus notialis	1.40	24	1.42
Loligo plei	1.20	80	1.22
Cyclopssetta chittendeni	0.60	8	0.61
Opisthonema oglinum	0.60	8	0.61
Serranus phoebe	0.40	52	0.41
Lepophidium profundorum	0.20	3	0.20
Haemulon steindachneri	0.00	4	0.00
Bothus sp	0.00	16	0.04
Porichthys pauciradiatus	0.00	4	0.04
Total	98.52	99.99	

PROJECT STATION: 683
 DATE: 21/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 952 Long W 5941
 start stop duration
 TIME : 13:04 14:04 60 (min) Purpose code: 3
 LOG : 8457.60 8460.40 2.80 Area code : 3
 FDEPTH: 605 697 GearCond. code: 3
 DDEPTH: 605 697 Validity code:
 Towing dir: 120° Wire out: 1900 m Speed: 28 kn*10

Sorted: 19 Kg Total catch: 63.68 CATCH/HOUR: 63.68

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Miscellaneous fish	15.00		23.56
MYCTOPHIDAE	12.60	102	19.79
OPLOPHORIDAE	6.30	1165	9.89
ISOPODS	4.50	15	7.07
MORIDAE	3.00	66	4.71
Etmopterus pusillus	3.00	9	4.71
Acanthephyra armata	2.70	34	4.24
LOBNIO	2.10	69	3.30
Benthodesmus tenuis	2.10	21	3.30
Plesiopeneus edwardsianus	2.00	35	3.14
GALATHEIDAE	1.80	72	2.83
Coelacanthus occa	1.80	12	2.83
Pholidoteuthis sp.	1.50	6	2.36
Glyphocrangon sp	1.50	396	2.36
Bathypterois sp	1.50	27	2.36
Nezumia sulia	1.20	24	1.88
CERPHALOPODA	0.30	6	0.47
Hydrotaeus alberti	0.30	3	0.47
Nezumia cyrano	0.30	6	0.47
Gonostoma elongatum	0.15	3	0.24
Serrivomer parabeoni	0.03	3	0.05
Hemichthys scolopacea	0.00	6	
Total	63.68	100.03	

PROJECT STATION: 684
 DATE: 21/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 946 Long W 5948
 start stop duration
 TIME : 15:12 16:12 60 (min) Purpose code: 3
 LOG : 8465.00 8467.70 2.70 Area code : 3
 FDEPTH: 596 615 GearCond. code: 3
 DDEPTH: 596 615 Validity code:
 Towing dir: 125° Wire out: 1750 m Speed: 26 kn*10

Sorted: 25 Kg Total catch: 75.30 CATCH/HOUR: 75.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Miscellaneous fish	12.00		15.94
Bathynomus giganteus	6.90	9	9.16
Plesiopeneus edwardsianus	6.30	2670	9.16
Synagrops bellus	6.00	36	7.97
Physiculus sp	5.40	78	7.17
Nematocarcinus rotundus	5.40	1108	7.17
BERYCIDAE	5.40	3	7.17
Pholidoteuthis sp.	4.50	9	5.98
Malacocephalus sp	4.50	45	5.98
Glyphocrangon sp	4.20	510	5.58
MYCTOPHIDAE	3.30	304	4.38
Bathypterois sp	2.40	63	3.19
Benthodesmus tenuis	2.10	39	2.79
Coelacanthus occa	1.20	6	1.59
Stereomastis sculpta	1.20	33	1.59
Ornithoteuthis antillarum	1.20	10	1.59
Aristeus antillensis	0.90	60	1.20
Nezumia sulia	0.60	9	0.80
Nephrurus rosea	0.60	18	0.80
Gnathophausia ingens	0.30	15	0.40
Etmopterus pusillus	0.30	6	0.40
SEPIOLIDAE	0.00	3	
Total	75.30	100.01	

PROJECT STATION: 680
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 856 Long W 6003
 start stop duration
 TIME : 14:45 15:15 30 (min) Purpose code: 3
 LOG : 8267.90 8268.90 1.00 Area code : 3
 FDEPTH: 33 32 GearCond. code: 3
 DDEPTH: 33 32 Validity code:
 Towing dir: 245° Wire out: 200 m Speed: 32 kn*10

Sorted: 5 Kg Total catch: 5.40 CATCH/HOUR: 10.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Selene spixii	5.40	8	50.00
Oligoplites saliens	5.40	6	50.00
Total	10.80	100.00	

PROJECT STATION: 681
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 900 Long W 6001
 start stop duration
 TIME : 17:13 17:18 0.10 (min) Purpose code: 3
 LOG : 8286.70 8286.80 0.10 Area code : 3
 FDEPTH: 57 57 GearCond. code: 9
 DDEPTH: 57 57 Validity code: 9
 Towing dir: 150° Wire out: 350 m Speed: 16 kn*10

Sorted: 9 Kg Total catch: 0.90 CATCH/HOUR: 10.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Mustelus canis	4.80	36	44.44
Sphyrana picudilla	2.40	12	22.22
Upeneus parvus	1.20	48	11.11
Ctenosciaena gracilicirrus	0.60	12	5.56
Haemulon steindachneri	0.60	12	5.56
Pemaeus notialis	0.60	48	5.56
Chloroscombrus chrysurus	0.60	24	5.56
Serranus phoebe	0.00	48	
Synodus poeyi	0.00	24	
Lepophidium profundorum	0.00	24	
Selar crumenophthalmus	0.00	12	
Calappa sp	0.00	12	
Porichthys bathoiketes	0.00	12	
Total	10.80	100.01	

PROJECT STATION: 68
 DATE: 21/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 944 Long W 5940
 start stop duration
 TIME : 17:25 18:25 60 (min) Purpose code: 3
 LOG : 8471.60 8474.40 2.80 Area code : 3
 FDEPTH: 493 490 GearCond. code: 3
 DDEPTH: 493 490 Validity code:
 Towing dir: 310° Wire out: 1500 m Speed: 27 kn*10

Sorted: 23 Kg Total catch: 48.10 CATCH/HOUR: 48.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Bathynomus giganteus	16.60	22	34.51
Benthodesmus tenuis	6.00	210	12.47
Miscellaneous fish	6.00	60	12.47
Synagrops bellus	5.90	52	10.40
Epigonus macrops	4.40	60	9.15
Physiculus sp	2.20	12	4.57
Glyphocrangon sp	1.60	114	3.33
Illex colvetti	1.40	6	2.91
Plesiopeneus edwardsianus	1.00	23	2.08
RAJIDAE	0.80	2	1.66
Promethichthys prometheus	0.60	2	1.25
Ornithoteuthis antillarum	0.60	5	1.25
Pholidoteuthis sp.	0.40	2	0.83
Malacocephalus occidentalis	0.30	6	0.62
Nezumia sulia	0.20	2	0.42
Stereomastis sculpta	0.20	14	0.42
Nematocarcinus rotundus	0.20	220	0.42
Penaeopsis serrata	0.20	14	0.42
Nephrurus rosea	0.20	8	0.42
Etmopterus pusillus	0.20	2	0.42
Solenocera sp	0.00	6	
Beabrops anatrostris	0.00	2	
Total	48.10	100.02	

PROJECT STATION: 682
 DATE: 21/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1001 Long W 5942
 start stop duration
 TIME : 10:30 11:30 60 (min) Purpose code: 3
 LOG : 8446.50 8449.10 2.60 Area code : 3
 FDEPTH: 794 793 GearCond. code: 3
 DDEPTH: 794 793 Validity code:
 Towing dir: 120° Wire out: 2100 m Speed: 22 kn*10

Sorted: 22 Kg Total catch: 40.65 CATCH/HOUR: 40.65

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Miscellaneous fish	7.30		17.90
Coelacanthus occa	6.40	32	15.89
Synagrops sp.	5.50	29	14.64
MORIDAE	5.60	70	13.80
Glyphocrangon sp	2.04	615	5.02
MYCTOPHIDAE	1.70	24	4.18
Nezumia cyrano	1.19	31	2.93
Bathypterois sp	1.19	24	2.93
Hydrotaeus alberti	1.19	2	2.93
Plesiopeneus edwardsianus	1.10	17	2.71
OPLOPHORIDAE	1.02	170	2.51
ISOPODS	1.02	25	2.51
LOBNIO	0.85	27	2.09
Stereomastis sculpta	0.85	34	2.09
Epigonus macrops	0.85	2	2.09
Acanthephyra armata	0.60	29	1.97
Gadomus sp	0.76	2	1.87
Peristedion ecuadorensis	0.34	5	0.84
Aristeus sp	0.25	15	0.62
PENAEIDAE	0.17	5	0.42
Total	40.65	100.02	

PROJECT STATION: 686
 DATE: 21/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 936
 start stop duration
 TIME : 23:04 23:34 30 (min) Purpose code: 3
 LOG : 0518.20 0519.20 1.00 Area code: 3
 FDEPTH: 61 61 GearCond. code: 3
 BDEPTH: 61 61 Validity code:
 Towing dir: 160° Wire out: 250 m Speed: 30 kn*10
 Sorted: 20 Kg Total catch: 66.85 CATCH/HOUR: 133.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pristigaster macronthalamus	19.20 1020	14.36	
Rhomboilites auroreus	19.20 192	14.36	
Saurida normani	18.60 430	13.91	
Lutjanus purpureus	10.20 60	7.63	103
Upeneus parvus	7.20 276	5.39	
Serranus phoebe	6.00 468	4.49	
Lutjanus purpureus	6.00 2	4.49	
Eucinostomus argenteus	5.40 144	4.04	
Cynoscion jamaicensis	5.40 30	4.04	
Lepophidium profundorum	4.00 276	3.59	
Penaeus notialis	4.40 132	3.29	182
Haemulon steindachneri	3.00 60	2.24	
Mustelus higmani	3.00 6	2.24	
Prionotus punctatus	2.70 18	2.02	
Solanocera sp.	2.40 636	1.80	
Priacanthus arenatus	2.40 24	1.80	
Ogcocephalus nasutus	2.40 6	1.80	
Syacium sp.	2.40 84	1.80	
Hoplunnis sp.	1.80 40	1.35	
Ophidion sp.	1.20 12	0.90	
Haemulon aurolineatum	1.20 36	0.90	
Cyclopetta chittandoni	1.20 6	0.90	
Porichthys pauciradiatus	1.20 72	0.90	
Penaeus brasiliensis	1.00 60	0.75	181
Prionotus steurnsi	0.60 24	0.45	
Trichiurus lepturus	0.60 6	0.45	
Penaeus subtilis	0.20 8	0.15	
Total	133.70	100.04	

PROJECT STATION: 691
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 931
 start stop duration
 TIME : 05:35 06:05 30 (min) Purpose code: 3
 LOG : 0551.60 0553.10 1.50 Area code: 3
 FDEPTH: 15 21 GearCond. code: 3
 BDEPTH: 15 21 Validity code:
 Towing dir: Wire out: 50 m Speed: 32 kn*10
 Sorted: 35 Kg Total catch: 35.50 CATCH/HOUR: 71.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichiurus lepturus	32.20 252	45.35	
Chaetodipterus faber	13.60 6	19.15	
Scomberomorus brasiliensis	11.00 6	15.49	
Harengula jaguana	5.00 310	7.04	152
Rhizoprionodon porosus	3.20 6	4.51	
Anchoa lyolepis	1.60 772	2.25	
Macraron ancydon	1.60 8	2.25	
Anchoa spinifer	1.20 226	1.69	
Micropogonias furnieri	0.40 4	0.56	
Peprilus paru	0.30 2	0.42	
Chirocentron bleekermanus	0.30 62	0.42	
Loligo plei	0.20 36	0.28	
Engraulis eurystole	0.20 112	0.28	
Anchoa mitchilli	0.20 36	0.28	
Pellona harroweri	0.00 4	0.20	
Total	71.00	99.97	

PROJECT STATION: 691
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 942
 start stop duration
 TIME : 07:06 07:08 2 (min) Purpose code: 3
 LOG : 0562.30 0562.30 Area code: 3
 FDEPTH: 51 51 GearCond. code: 9
 BDEPTH: 51 51 Validity code: 9
 Towing dir: Wire out: 200 m Speed: 20 kn*10
 Sorted: 4 Kg Total catch: 4.00 CATCH/HOUR: 120.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichiurus lepturus	30.00 420	25.00	
Chirocentron bleekermanus	18.00 324	15.00	
Ctenosciaena gracilicirrhus	18.00 210	15.00	
Cynoscion jamaicensis	15.00 420	12.50	
Penaeus subtilis	12.00 180	10.00	
Lepophidium profundorum	9.00 120	7.50	
Hemicaranx amblyrhynchus	9.00 60	7.50	
Calappa sp.	3.00 60	2.50	
Selene spixii	3.00 60	2.50	
Pellona harroweri	3.00 60	2.50	
Peprilus paru	0.60 30	0.50	
Porichthys pauciradiatus	0.00 30	0.00	
Harengula jaguana	0.00 30	0.00	
Total	120.00	100.00	

PROJECT STATION: 692
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 945
 start stop duration
 TIME : 08:23 08:53 30 (min) Purpose code: 3
 LOG : 0573.50 0575.10 1.60 Area code: 3
 FDEPTH: 57 57 GearCond. code: 3
 BDEPTH: 57 57 Validity code:
 Towing dir: 224° Wire out: 250 m Speed: 30 kn*10
 Sorted: 15 Kg Total catch: 15.65 CATCH/HOUR: 30.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sphyraena guachancho	5.20 14	18.60	
Upeneus parvus	4.20 84	13.95	193
Scomberomorus cavalla	3.20 6	10.63	
Mustelus canis	3.00 6	9.97	
Loligo plei	2.00 280	6.64	
Selene spixii	2.00 32	6.64	
Trichiurus lepturus	1.90 33	5.98	
Lutjanus purpureus	1.60 14	5.32	
Cynoscion jamaicensis	1.20 12	3.99	
Sphyraena picudilla	1.20 6	3.99	
Synodus foetens	1.00 10	3.32	
Harengula jaguana	0.80 10	2.66	
Eucinostomus argenteus	0.80 34	2.66	
Hemicaranx amblyrhynchus	0.60 2	1.99	
Serranus phoebe	0.40 26	1.33	
Penaeus notialis	0.20 8	0.66	
Peprilus paru	0.20 2	0.66	
Lutjanus synagris	0.20 2	0.66	
Diapterus rhombeus	0.10 2	0.33	
Loligo plei	0.00 6	0.00	
Anchoa mitchilli	0.00 16	0.00	
Selar crumenophthalmus	0.00 6	0.00	
Haemulon steindachneri	0.00 2	0.00	
Haemulon aurolineatum	0.00 4	0.00	
Diplectrum bivittatum	0.00 2	0.00	
Total	30.10	99.98	

PROJECT STATION: 688
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 932
 start stop duration
 TIME : 02:20 02:30 10 (min) Purpose code: 3
 LOG : 0539.20 0539.30 0.10 Area code: 3
 FDEPTH: 42 41 GearCond. code: 1
 BDEPTH: 42 41 Validity code: 1
 Towing dir: 190° Wire out: 150 m Speed: 30 kn*10
 Sorted: 9 Kg Total catch: 9.35 CATCH/HOUR: 56.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Micropogonias furnieri	18.00 96	32.09	187
Ctenosciaena gracilicirrhus	18.00 504	32.09	186
Cynoscion jamaicensis	12.00 210	21.39	188
Trichiurus lepturus	3.00 36	5.35	
Lepophidium profundorum	1.80 42	3.21	
Eucinostomus argenteus	1.20 36	2.14	
Ophidion sp.	1.20 24	2.14	
Symphurus plagiosus	0.60 6	1.07	
Mustelus higmani	0.30 6	0.53	
Prionotus punctatus	0.20 6	0.37	
Total	56.10	100.01	

PROJECT STATION: 694
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 944
 start stop duration
 TIME : 10:16 10:26 10 (min) Purpose code: 3
 LOG : 0587.40 0587.70 0.30 Area code: 3
 FDEPTH: 43 43 GearCond. code: 5
 BDEPTH: 43 43 Validity code:
 Towing dir: 224° Wire out: 200 m Speed: 20 kn*10
 Sorted: 5 Kg Total catch: 3.15 CATCH/HOUR: 30.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Cynoscion jamaicensis	22.20 210	71.84	194
Sphyraena picudilla	3.00 10	9.71	
Ctenosciaena gracilicirrhus	2.40 60	7.77	
Scomberomorus cavalla	1.80 6	5.83	
Harengula jaguana	0.90 36	2.91	
Eucinostomus argenteus	0.60 24	1.94	
Total	30.90	100.00	

PROJECT STATION: 689
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 934
 start stop duration
 TIME : 03:28 03:58 30 (min) Purpose code: 3
 LOG : 0544.40 0545.60 1.20 Area code: 3
 FDEPTH: 41 45 GearCond. code: 3
 BDEPTH: 41 45 Validity code:
 Towing dir: Wire out: 150 m Speed: 24 kn*10
 Sorted: 16 Kg Total catch: 69.30 CATCH/HOUR: 138.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Ctenosciaena gracilicirrhus	80.00 2154	58.30	190
Cynoscion jamaicensis	40.00 480	28.86	191
Micropogonias furnieri	6.40 72	4.62	
Lepophidium profundorum	4.00 80	2.89	
Penaeus subtilis	3.00 320	2.74	109
Eucinostomus argenteus	3.20 120	2.31	
Syacium sp.	0.40 32	0.28	
Hoplunnis sp.	0.00 16	0.00	
Total	138.60	100.01	

PROJECT STATION: 694
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 943 Long W 6052
 TIME : 12:00 start stop duration Purpose code: 3
 LOG : 0601.60 0603.30 1.60 Area code : 3
 FDEPTH: 29 35 GearCond.code: 3
 BDEPTH: 29 35 Validity code:
 Towing dir: 341° Wire out: 150 m Speed: 35 kn*10
 Sorted: 15 Kg Total catch: 77.10 CATCH/HOUR: 154.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pellona harroweri	25.20	11200	16.34	
Ctenosciaena gracilicirrus	21.50	470	13.94	196
Cynoscion jamaicensis	20.50	424	13.29	195
Trichiurus lepturus	16.00	654	10.38	
Oligoplites saliens	14.00	14	9.00	
Cynoscion jamaicensis	11.20	1176	7.26	
Selene spixii	10.40	14	6.74	
Ctenosciaena gracilicirrus	8.40	980	5.45	
Cynoscion virescens	6.00	18	5.19	
Harengula jaguana	6.50	166	4.22	
Anchoa sp	3.00	1176	1.32	
Chirocentron bleekeriianus	2.80	616	1.82	
POMADASIDAE	2.50	6	1.62	
Peprilus paru	2.50	30	1.62	
Rhizoprionodon porosus	1.40	2	0.91	
Orthopristis ruber	0.50	6	0.32	
Total	154.20		100.00	

PROJECT STATION: 695
 DATE: 22/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 948 Long W 6102
 TIME : 14:00 start stop duration Purpose code: 3
 LOG : 0617.70 0619.10 1.40 Area code : 3
 FDEPTH: 31 37 GearCond.code: 3
 BDEPTH: 31 37 Validity code:
 Towing dir: 215° Wire out: 100 m Speed: 29 kn*10
 Sorted: 2 Kg Total catch: 31.30 CATCH/HOUR: 62.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	20.60	256	32.91	197
Selene spixii	8.80	12	14.06	
Oligoplites saliens	8.00	4	12.70	
Anchoa sp	7.20	4	11.50	
Bagre sp.	6.20	0	9.90	
Scomberomorus cavalla	4.00	4	6.39	
Pellona harroweri	3.60	840	5.75	
Eucinostomus argenteus	1.20	36	1.92	
Trichiurus lepturus	1.20	66	1.92	
Ctenosciaena gracilicirrus	0.60	18	0.96	
Cynoscion virescens	0.60	2	0.96	
Porichthys pauciradiatus	0.30	6	0.48	
Pomadasys commersonnii	0.30	30	0.48	
Prionotus punctatus	0.00	6		
Harengula jaguana	0.00	6		
Total	62.60		100.01	

PROJECT STATION: 696
 DATE: 24/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1110 Long W 6034
 TIME : 11:31 start stop duration Purpose code: 3
 LOG : 0803.90 0805.40 1.50 Area code : 4
 FDEPTH: 27 33 GearCond.code: 4
 BDEPTH: 27 33 Validity code:
 Towing dir: 170° Wire out: 350 m Speed: 29 kn*10
 Sorted: 26 Kg Total catch: 28.30 CATCH/HOUR: 56.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Calanus penna	11.00	20	19.43	
Lutjanus analis	11.00	2	19.43	
Rhomboplites aurorubens	10.30	206	19.08	200
Trachurus lathami	3.00	134	6.73	196
Lutjanus purpureus	2.60	4	6.36	
Pristipomoides macrophthalmus	2.80	64	4.95	199
Loligo plei	2.00	122	3.53	201
Saurida normani	2.00	32	3.53	
Priacanthus arenatus	2.00	8	3.53	
Pisularia peltata	1.40	2	2.47	
Sparisoma chrysoptera	1.40	2	2.47	
Upeneus parvus	1.40	36	2.47	
Haemulon aurolineatum	1.00	8	1.77	
Holocentrus adscensionis	0.80	2	1.41	
Diplecetrum bivittatum	0.40	6	0.71	
Acanthostracion sp	0.40	6	0.71	
Syacium micrurus	0.30	2	0.53	
Chaetodon sedentarius	0.30	2	0.53	
Haemulon boschmae	0.20	6	0.35	
Total	56.60		99.97	

PROJECT STATION: 697
 DATE: 24/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1101 Long W 6025
 TIME : 15:27 start stop duration Purpose code: 3
 LOG : 0895.90 0897.00 1.10 Area code : 4
 FDEPTH: 66 67 GearCond.code: 4
 BDEPTH: 66 67 Validity code:
 Towing dir: 05° Wire out: 350 m Speed: 20 kn*10
 Sorted: 3 Kg Total catch: 3.60 CATCH/HOUR: 9.39

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scomberomorus cavalla	6.52	3	69.44	
Loligo plei	1.57	97	16.72	202
Pristipomoides macrophthalmus	1.30	16	13.84	
Total	9.39		100.00	

PROJECT STATION: 696
 DATE: 25/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1040 Long W 6031
 TIME : 03:48 start stop duration Purpose code: 3
 LOG : 9002.30 9003.70 1.40 Area code : 4
 FDEPTH: 61 66 GearCond.code: 4
 BDEPTH: 61 66 Validity code:
 Towing dir: 90° Wire out: 300 m Speed: 27 kn*10
 Sorted: 19 Kg Total catch: 91.25 CATCH/HOUR: 182.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Upeneus parvus	36.30	1152	20.16	
Acanthostracion quadricornis	22.40	120	12.27	
Haemulon aurolineatum	20.80	216	11.40	
Calanus penna	12.80	32	7.01	
Lutjanus analis	10.70	2	5.86	
Peneus brasiliensis	10.40	1236	5.70	204
Priacanthus arenatus	9.60	104	5.26	
Pristipomoides macrophthalmus	9.60	424	5.26	
Lutjanus purpureus	5.20	16	2.85	
Rhomboplites aurorubens	4.20	56	2.30	203
Dactylopterus volitans	4.00	136	2.19	
Saurida sp	4.00	144	2.19	
Haemulon boschmae	4.00	104	2.19	
Syacium micrurus	3.20	64	1.75	
Decapodus tabl	3.20	192	1.75	
Holocentrus adscensionis	3.20	8	1.75	
Cyclopetta chittendeni	2.80	16	1.53	
Loligo plei	2.40	64	1.12	
Aluterus sp	2.40	8	1.32	
Diplecetrum bivittatum	2.40	112	1.32	
Lepopidium phoromystax	2.40	216	1.32	
Synodus liberti	1.60	48	0.80	
Porichthys sp	1.60	32	0.80	
Equetus lanceolatus	1.20	24	0.66	
Apogon pseudomaculatus	0.80	136	0.44	
Lepopidium profundorum	0.80	16	0.44	
Total	182.50		100.00	

PROJECT STATION: 699
 DATE: 25/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1036 Long W 6056
 TIME : 07:57 start stop duration Purpose code: 3
 LOG : 9038.00 9039.40 1.40 Area code : 4
 FDEPTH: 25 31 GearCond.code: 4
 BDEPTH: 25 31 Validity code:
 Towing dir: Wire out: 150 m Speed: 27 kn*10
 Sorted: 66 Kg Total catch: 778.20 CATCH/HOUR: 1556.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Stellifer microps	385.00	10944	24.74	
Bairdiella chrysoura	326.60	8064	20.98	
Arius sp	163.40	1004	10.50	
Micropononias furnieri	149.40	280	9.60	205
Arius grandicaesus	135.40	234	8.70	
Pellona harroweri	81.60	4014	5.24	
Lutjanus synagris	49.00	70	3.15	
Isopisthus parvipinnis	49.00	2360	3.15	
Trichiurus lepturus	46.60	514	2.99	
Larimus breviceps	42.00	326	2.70	
Trachinotus carolinus	23.40	24	1.50	
Bagre bagre	23.40	140	1.50	
Rhizoprionodon porosus	16.40	24	1.05	
Harengula jaguana	16.40	24	1.05	
Nebria microps	14.00	24	0.90	
Pomadasys corvinaeformis	11.60	45	0.75	
Cynoscion microlepidotus	7.00	24	0.45	
Macrodon ancylodon	7.00	24	0.45	
Haemulon steindachneri	4.60	24	0.30	
Colomesus psittacus	4.60	24	0.30	
Pomadasys commersonnii	6.00	45		
Xiphopenaeus kroyeri	6.95	164		
Chloroscombrus chrysurus	0.80	54		
Total	1556.40		100.00	

PROJECT STATION: 700
 DATE: 25/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1032 Long W 6056
 TIME : 09:45 start stop duration Purpose code: 3
 LOG : 9049.00 9050.90 1.10 Area code : 4
 FDEPTH: 22 22 GearCond.code: 4
 BDEPTH: 22 22 Validity code:
 Towing dir: 10° Wire out: 100 m Speed: 23 kn*10
 Sorted: 71 Kg Total catch: 574.80 CATCH/HOUR: 1149.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Bairdiella chrysoura	316.80	7160	27.56	
Trichiurus lepturus	139.20	1104	12.11	
Stellifer microps	139.20	5160	12.11	
Rhizoprionodon porosus	136.00	120	11.83	
Micropononias furnieri	94.40	176	8.21	
Chloroscombrus chrysurus	70.40	608	6.12	206
Pellona harroweri	40.00	1984	3.48	
Odontognathus micronatus	35.20	5344	3.06	
Selene spixii	28.80	80	2.51	
Arius sp	22.40	208	1.95	
Isopisthus parvipinnis	22.40	352	1.95	
Larimus breviceps	20.80	112	1.11	
Harengula jaguana	19.20	560	1.67	
Xiphopenaeus kroyeri	16.00	3056	1.39	
Arius grandicaesus	14.40	16	1.25	
Cynoscion microlepidotus	8.00	16	0.70	
Centropomus pectinatus	5.60	16	0.49	
Macrodon ancylodon	4.80	16	0.42	
Lycengraulis grossidens	4.00	16	0.35	
Paralichthys brasiliensis	3.20	16	0.28	
Menticirrhus americanus	3.20	16	0.28	
Conodon nobilis	2.40	16	0.21	
Peprilus paru	1.60	16	0.14	
Bagre bagre	1.60	16	0.14	
Pistionema oglinum	0.80	16	0.08	
Total	1149.60		100.00	

DATE:25/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 701
 start stop duration POSITION:Lat N 1030
 TIME : 11:55 12:25 30 (min) Purpose code: 3 Long W 6051
 LOG :9062.60 9063.90 1.30 Area code : 4
 FDEPTH: 35 33 GearCond.code:
 BDEPTH: 35 33 Validity code:
 Towing dir: 272 Wire out: 150 m Speed: 25 kn*10

Sorted: 73 Kg Total catch: 260.70 CATCH/HOUR: 521.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Chloroscombrus chrysurus	220.00	1484	42.19
Chirocentrodon bleekeri	74.80	11046	14.35
Lutjanus synagris	38.00	102	7.29
Selene setipinnis	30.24	104	5.00
Munelus biguttatus	27.40	10	5.26
Conodon nobilis	26.40	92	5.06
Rhizoprionodon porosus	19.20	22	3.16
Upeneus parvus	16.50	264	3.68
Microponias furnieri	16.50	26	3.16
Oligoplites saliens	9.40	16	1.80
Cynoscion similis	8.00	10	1.69
Pepilus paru	8.20	32	1.57
Carcharhinus porosus	6.60	4	1.27
Trichurus lepturus	3.20	30	0.61
Eucinostomus argenteus	3.20	40	0.61
Hemulonax amblyrhynchus	2.20	10	0.42
Haemulon steindachneri	2.20	10	0.42
Albulus neoptera	2.00	4	0.38
Acanthostracion quadricornis	1.60	10	0.31
Diapterus rhombeus	1.60	4	0.31
Aluterus monoceros	1.40	4	0.27
Lutjanus purpuraceus	1.00	10	0.19
Selene setipinnis	1.00	4	0.19
Total	521.44		99.99

DATE:25/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 702
 start stop duration POSITION:Lat N 1024
 TIME : 18:50 19:50 60 (min) Purpose code: 3 Long W 6008
 LOG :9123.00 9125.30 2.30 Area code : 4
 FDEPTH: 487 457 GearCond.code:
 BDEPTH: 487 457 Validity code:
 Towing dir: 340 Wire out:1500 m Speed: 22 kn*10

Sorted: 24 Kg Total catch: 49.70 CATCH/HOUR: 49.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Illex coomptii	7.00	30	14.00
Pomatomus serratus	5.00	32	11.67
Bathynomus giganteus	5.00	14	11.27
Bombrus anatrostris	5.40	90	10.87
Steindachneria argentea	3.20	72	6.44
Chaunax pictus	3.00	38	6.04
Polymetme corythaeola	2.80	108	5.63
Epigonus sp	2.40	24	4.83
Hydrolaqus alberti	2.00	4	4.02
Nezumia sulia	1.60	60	3.22
Glyphocrangon sp	1.40	256	2.82
Netastoma melanurum	1.20	4	2.41
Laemonema sp	1.20	8	2.41
Stereomastix sculpta	1.20	58	2.41
Bathygadus melanobranchus	1.00	44	2.01
Parasudis triculenta	1.00	34	2.01
Polymixia lowei	1.00	10	2.01
Merluccius albidus	0.90	1	1.81
Monacanthus tomentosus	0.80	20	1.61
Peristichion sp	0.80	6	1.61
N.A.S	0.40	6	0.80
Sotacarus guentheri	0.30	0	0.60
Polychaeta sp	0.30	24	0.60
Dentohedus tenuis	0.20	6	0.40
Plesiopneustes edwardsianus	0.10	4	0.20
Sternopyx sp	0.04	4	0.08
Coloconyx sp	0.00	4	0.00
PNRUDRAJIDAE	0.00	2	0.00
Acanthopagrus dalgichthys	0.00	2	0.00
Rossia sp	0.00	2	0.00
Promethichthys promethus	0.00	2	0.00
Total	50.64		101.66

DATE:25/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 703
 start stop duration POSITION:Lat N 1013
 TIME : 23:29 00:29 60 (min) Purpose code: 3 Long W 6001
 LOG :9140.70 9150.90 2.20 Area code : 4
 FDEPTH: 504 500 GearCond.code:
 BDEPTH: 504 500 Validity code:
 Towing dir: 320 Wire out:1500 m Speed: 25 kn*10

Sorted: 27 Kg Total catch: 27.30 CATCH/HOUR: 27.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Miscellaneous fish	8.40		30.77
Monacanthus tomentosus	5.50	37	20.15
Geryon sp.	4.60	10	16.85
Malacocephalus occidentalis	2.50	26	9.16
Penaeopsis serrata	1.40	27	5.13
Epigonus sp	1.30	17	4.76
Bathynomus giganteus	1.00	2	3.66
Aristaeomorpha foliacea	0.80	25	2.93
Plesiopneustes edwardsianus	0.80	7	2.93
Nezumia sulia	0.50	17	1.83
Stereomastix sculpta	0.10	3	0.37
LOBNIOO	0.10	4	0.37
Chaunax pictus	0.10	2	0.37
Dibranchius atlanticus	0.10	2	0.37
Peristichion sp	0.10	1	0.37
Total	27.30		100.02

DATE:26/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 704
 start stop duration POSITION:Lat N 1041
 TIME : 08:46 08:49 3 (min) Purpose code: 3 Long W 6058
 LOG :9214.60 9214.60 Area code : 4
 FDEPTH: 47 47 GearCond.code: 9
 BDEPTH: 47 47 Validity code: 9
 Towing dir: 50 Wire out: 250 m Speed: 30 kn*10

Sorted: 65 Kg Total catch: 0.65 CATCH/HOUR: 13.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Pepilus paru	7.00	20	53.85
Cynoscion jamaicensis	4.00	20	30.77
Penaeus notialis	2.00	60	15.38
Total	13.00		100.00

DATE:26/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 705
 start stop duration POSITION:Lat N 1000
 TIME : 11:23 11:53 30 (min) Purpose code: 3 Long W 6108
 LOG :9222.80 9223.70 0.90 Area code : 4
 FDEPTH: 39 34 GearCond.code:
 BDEPTH: 39 34 Validity code:
 Towing dir: 275 Wire out: 200 m Speed: 18 kn*10

Sorted: 57 Kg Total catch: 210.10 CATCH/HOUR: 420.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	112.00	3930	26.65
Trichurus lepturus	49.60	602	11.00
Microponias furnieri	42.00	90	10.00
Chirocentrodon bleekeri	39.20	7290	9.33
Chaetodipterus faber	28.00	14	6.66
Lutjanus synagris	28.00	98	6.66
Trachinotus cayennensis	17.60	20	4.19
Mustelus higmani	15.40	28	3.66
Pallona harroweri	12.60	496	3.00
Selene setipinnis	11.20	146	2.67
Cynoscion acoupa	8.40	6	2.00
Bagre bagre	7.00	6	1.67
Prionotus punctatus	7.00	34	1.67
Pomatomus saltatrix	7.00	6	1.67
Eucinostomus argenteus	7.00	210	1.67
Ctenosciaena gracilicirrus	6.20	210	1.48
Loligo pealei	4.20	364	1.00
Penaeus notialis	3.40	230	0.81
Harengula jaguana	2.80	70	0.67
Rhizoprionodon porosus	2.80	6	0.67
Synodus poeyi	2.00	34	0.48
Carcharhinus porosus	1.80	6	0.43
Sphyrna guachancho	1.40	6	0.33
Xiphopenaeus kroyeri	1.00	140	0.24
Diapterus rhombeus	0.80	20	0.19
Bairdiella batabana	0.60	6	0.14
Haemulon steindachneri	0.60	6	0.14
Penaeus brasiliensis	0.60	70	0.14
Total	420.20		100.02

DATE:26/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 706
 start stop duration POSITION:Lat N 1000
 TIME : 12:35 13:05 30 (min) Purpose code: 3 Long W 6112
 LOG :9224.60 9225.00 0.40 Area code : 4
 FDEPTH: 31 23 GearCond.code:
 BDEPTH: 31 23 Validity code:
 Towing dir: 270 Wire out: 150 m Speed: 27 kn*10

Sorted: 29 Kg Total catch: 221.15 CATCH/HOUR: 442.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	175.00	3700	39.57
Chirocentrodon bleekeri	74.20	19804	16.78
Trichurus lepturus	74.20	976	16.78
Lutjanus synagris	17.00	80	3.84
Ctenosciaena gracilicirrus	16.80	1428	3.80
Chaetodipterus faber	14.00	14	3.17
Cynoscion acoupa	10.00	18	2.26
Pallona harroweri	9.80	336	2.22
Penaeus notialis	8.40	980	1.90
Penaeus brasiliensis	7.00	434	1.58
Eucinostomus argenteus	5.60	84	1.27
Bairdiella batabana	5.60	84	1.27
Bagre bagre	5.60	14	1.27
Diapterus rhombeus	3.40	42	0.77
Synodus poeyi	2.80	28	0.63
Harengula jaguana	2.80	70	0.63
Trachinotus cayennensis	2.60	2	0.59
Prionotus punctatus	2.00	14	0.45
Diplectrum bivittatum	2.00	56	0.45
Microponias furnieri	1.80	2	0.41
Lutjanus purpuraceus	1.40	14	0.32
Total	442.00		99.96

DATE:26/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 707
 start stop duration POSITION:Lat N 1000
 TIME : 13:30 14:00 30 (min) Purpose code: 3 Long W 6115
 LOG :9226.50 9227.20 0.70 Area code : 4
 FDEPTH: 27 27 GearCond.code:
 BDEPTH: 27 27 Validity code:
 Towing dir: 250 Wire out: 150 m Speed: 14 kn*10

Sorted: 33 Kg Total catch: 276.00 CATCH/HOUR: 552.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Cynoscion jamaicensis	132.80		24.06
Trichurus lepturus	102.40		18.55
Chirocentrodon bleekeri	81.60		14.78
Microponias furnieri	33.60	80	6.09
Diapterus rhombeus	22.40	432	4.06
Pallona harroweri	20.80		3.77
Eucinostomus argenteus	20.80	512	3.77
Lutjanus synagris	20.00		3.62
Cynoscion similis	17.60	16	3.19
Ctenosciaena gracilicirrus	17.60	512	3.19
Pepilus paru	17.60	64	3.19
Bagre bagre	16.00	16	2.90
Pomatomus saltatrix	12.80	16	2.32
Diplectrum bivittatum	12.80	208	2.32
Synodus foetens	6.40	48	0.86
Lutjanus purpuraceus	4.80	48	0.87
Loligo pealei	3.20	64	0.58
Penaeus brasiliensis	3.20	384	0.58
Selene vomer	3.20	64	0.58
Harengula jaguana	2.40	144	0.43
Total	552.00		100.01

PROJECT STATION: 708

DATE: 26/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 958
 start stop duration Long W 6120
 TIME : 14:33 15:03 30 (min) Purpose code: 3
 LOG : 9229.30 9229.90 0.60 Area code : 4
 FDEPTH: 24 23 GearCond.code: 2
 BDEPTH: 24 23 Validity code:
 Towing dir: 260° Wire out: 100 m Speed: 13 kn*10

Sorted: 33 Kg Total catch: 300.40 CATCH/HOUR: 600.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	278.00		46.27	221
Chirocentrodon bleekermanus	05.60		14.25	
Chaetodipterus faber	64.00	32	10.65	
Microgogonias furnieri	36.80	140	6.13	222
Trichiurus lepturus	32.00	800	5.33	
Diapturus rhombus	32.00	240	5.33	
Pellona harroweri	14.40		2.40	
Sphyrna tiburo	14.00	24	2.33	223
Cynoscion similis	11.20	208	1.06	
Eucinostomus argenteus	5.40	12	0.90	
Oligoplites saurus	4.80	96	0.80	
Selene vomer	4.00	144	0.67	
Loligo pealei	4.00	12	0.67	
Menticirrhus americanus	3.20	32	0.53	
Synodus foetens	2.40	128	0.40	
Lutjanus synagris	2.20	20	0.37	
Sphyrna tiburo	1.60	32	0.27	
Pomatomus saltatrix	1.60	2	0.27	
Trachinotus caryenensis	1.40	2	0.23	
Diplectrum bivittatum	0.80	16	0.13	
Caranx hippos	0.80	2	0.13	
Lutjanus purpureus	0.20	2	0.03	
Rhizoprionodon porosus	0.00			
Total	600.40		99.95	

PROJECT STATION: 709

DATE: 26/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 955
 start stop duration Long W 6106
 TIME : 17:29 17:59 30 (min) Purpose code: 3
 LOG : 9251.00 9252.50 1.50 Area code : 4
 FDEPTH: 54 51 GearCond.code: 2
 BDEPTH: 54 51 Validity code:
 Towing dir: 97° Wire out: 250 m Speed: 30 kn*10

Sorted: 20 Kg Total catch: 74.80 CATCH/HOUR: 149.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	43.80	1416	29.28	224
Microgogonias furnieri	21.00	36	14.04	226
Mustelus higmani	19.80	42	13.24	
Ctenosciaena gracilicirrus	18.00	1008	12.03	
Bagre marinus	9.00	6	6.02	
POMADASYDINI:	7.80	24	5.21	
Trichiurus lepturus	6.60	186	4.41	
Peprilus paru	5.40	24	3.61	
Penaeus subtilis	4.00	330	3.21	225
Chirocentrodon bleekermanus	4.20	828	2.81	
Lepophidium profundum	3.00	42	2.01	
Cynoscion acoupa	3.00	6	2.01	
Lutjanus synagris	1.80	2	1.20	
Cynoscion similis	1.40	2	0.94	
Eucinostomus argenteus	0.00	18		
Prionotus punctatus	0.00	12		
Total	149.60		100.02	

PROJECT STATION: 710

DATE: 26/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 956
 start stop duration Long W 6053
 TIME : 19:50 19:51 1 (min) Purpose code: 3
 LOG : 9265.00 9265.00 Area code : 4
 FDEPTH: 54 54 GearCond.code: 9
 BDEPTH: 54 54 Validity code: 9
 Towing dir: 90° Wire out: 250 m Speed: 20 kn*10

Sorted: 0 Kg Total catch: 0.60 CATCH/HOUR: 36.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	18.00	240	50.00	
Peprilus paru	12.00	60	33.33	
Trichiurus lepturus	6.00	60	16.67	
Chloroscombrus chrysurus	0.00	60		
Ctenosciaena gracilicirrus	0.00	60		
Total	36.00		100.00	

PROJECT STATION: 711

DATE: 26/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 957
 start stop duration Long W 6041
 TIME : 21:50 22:20 30 (min) Purpose code: 3
 LOG : 9279.20 9279.90 0.70 Area code : 4
 FDEPTH: 60 60 GearCond.code: 2
 BDEPTH: 60 60 Validity code:
 Towing dir: 275° Wire out: 220 m Speed: 21 kn*10

Sorted: 52 Kg Total catch: 141.70 CATCH/HOUR: 283.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	139.60	2996	49.26	227
Ctenosciaena gracilicirrus	25.60	416	9.03	229
Peprilus paru	22.60	116	7.97	
Aetobatus narinari	20.40	4	7.20	
Trichiurus lepturus	20.00	646	7.06	
Lepophidium profundum	9.60	306	3.39	
Cynoscion acoupa	8.00	10	3.03	
Synodus foetens	7.00	56	2.47	
Selene spixii	5.00	86	1.76	
Xiphocheilus kroyeri	4.60	10	1.62	
Upeneus parvus	3.00	60	1.06	
Saurida normani	3.00	20	1.06	
Serranus phoebe	2.60	146	0.92	
Mustelus higmani	1.60	6	0.56	
Rhizoprionodon porosus	1.60	6	0.56	
Chirocentrodon bleekermanus	1.60	210	0.56	
Prionotus punctatus	1.60	26	0.56	
Penaeus subtilis	1.60	110	0.56	228
Loligo pealei	0.60	50	0.21	
Lutjanus purpureus	0.60	6	0.21	
Penaeus notialis	0.60	16	0.21	
Eucinostomus argenteus	0.60	30	0.21	
Pellona harroweri	0.60	10	0.21	
Porichthys pauciradiatus	0.60	86	0.21	
Opisthonema oglinum	0.20	6	0.07	
Mettonchelys sp.	0.00	6		
Dibranchius atlanticus	0.00	16		
Syacium micrum	0.00	16		
Diplectrum bivittatum	0.00	6		
Total	283.40		99.96	

PROJECT STATION: 712

DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1004
 start stop duration Long W 6033
 TIME : 01:50 02:20 30 (min) Purpose code: 3
 LOG : 9310.00 9311.10 1.10 Area code : 4
 FDEPTH: 71 70 GearCond.code: 2
 BDEPTH: 71 70 Validity code:
 Towing dir: 260° Wire out: 300 m Speed: 17 kn*10

Sorted: 29 Kg Total catch: 59.10 CATCH/HOUR: 118.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Synodus sp	20.00	1340	16.92	
Upeneus parvus	17.60	360	14.89	
Cynoscion jamaicensis	14.40	204	12.18	230
Serranus phoebe	8.00	1080	6.77	
Mustelus higmani	6.40	12	5.41	
Rhomboplites aurorubens	6.00	252	5.08	231
Chloroscombrus chrysurus	5.60	140	4.74	
Selene spixii	4.80	84	4.06	
Trichiurus lepturus	4.80	116	4.06	
Penaeus notialis	4.00	112	3.38	232
Loligo pealei	4.00	316	3.38	
Lepophidium sp	3.20	88	2.71	
Pristipomoides macropthalmus	3.20	560	2.71	
Prionotus stearnsi	1.20	372	2.21	
Sphyrna tiburo	2.80	12	2.37	
Prionotus punctatus	2.40	12	2.03	
Eucinostomus argenteus	2.40	60	2.03	
Porichthys pauciradiatus	2.40	184	2.03	
Cyclosetta chittendeni	1.20	0	1.02	
Scomberomorus cavalla	1.20	4	1.02	
Selae crumenophthalmus	0.40	4	0.34	
Penaeus brasiliensis	0.20	68	0.17	
Total	118.20		100.01	

PROJECT STATION: 713

DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1005
 start stop duration Long W 6047
 TIME : 03:42 04:12 30 (min) Purpose code: 3
 LOG : 9322.60 9324.20 1.60 Area code : 4
 FDEPTH: 56 53 GearCond.code: 2
 BDEPTH: 56 53 Validity code:
 Towing dir: 270° Wire out: 250 m Speed: 30 kn*10

Sorted: 34 Kg Total catch: 174.60 CATCH/HOUR: 349.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	50.00	7600	14.32	
Penaeus notialis	43.00	2370	12.31	234
Cynoscion jamaicensis	36.00	230	10.31	233
Lepophidium sp	22.00	720	6.30	
Synodus poeyi	20.00	420	5.73	
Chloroscombrus chrysurus	17.00	460	4.07	
Saurida normani	16.00	940	4.58	
Trachypenaeus sp	15.00	3330	4.30	
Peprilus paru	15.00	50	4.30	
Upeneus parvus	11.00	200	3.15	
Serranus phoebe	11.00	710	3.15	
Mustelus higmani	10.00	10	2.86	
Trichiurus lepturus	9.00	90	2.58	
Sphyrna tiburo	8.00	10	2.29	
Prionotus punctatus	8.00	120	2.29	
Haemulon steindachneri	8.00	30	2.29	
Selene spixii	8.00	110	2.29	
Hoplinis diomedianus	7.60	330	2.18	
Ctenosciaena gracilicirrus	6.00	60	1.72	
Lutjanus purpureus	6.00	40	1.72	
Penaeus brasiliensis	5.00	210	1.43	
Porichthys sp	5.00	440	1.43	
Priacanthus arenatus	4.00	10	1.15	
Loligo pealei	4.00	170	1.15	
Lutjanus synagris	3.00	10	0.86	
Diplectrum bivittatum	1.00	10	0.29	
Notus sp	0.60	180	0.17	
Total	349.20		100.02	

PROJECT STATION: 714

DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000
 start stop duration Long W 6100
 TIME : 05:37 05:41 4 (min) Purpose code: 3
 LOG : 9336.90 9337.00 0.10 Area code : 4
 FDEPTH: 39 37 GearCond.code: 5
 BDEPTH: 39 37 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 25 kn*10

Sorted: 13 Kg Total catch: 13.55 CATCH/HOUR: 203.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	67.50	1500	33.21	
Sphyrna tiburo	22.50	15	11.07	
Cynoscion jamaicensis	18.75	240	9.23	
Hemicaranx amblyrhynchus	10.50	30	5.17	
Upeneus parvus	9.00	15	4.43	
Rhizoprionodon porosus	9.00	165	4.43	
Penaeus brasiliensis	7.50	60	3.69	
Scomberomorus cavalla	7.50	15	3.69	
Eucinostomus argenteus	7.50	120	3.69	
Selene spixii	7.50	75	3.69	
Chloroscombrus chrysurus	6.00	105	2.95	
Loligo pealei	4.50	135	2.21	
Chirocentrodon bleekermanus	4.50	345	2.21	
Anchoviella lepidostole	3.00	45	1.48	
Hoplinis diomedianus	3.00	45	1.48	
Penaeus notialis	3.00	75	1.48	
Ctenosciaena gracilicirrus	3.00	30	1.48	
Synodus poeyi	1.50	120	0.74	
Pristipomoides macropthalmus	0.00	60		
Diplectrum bivittatum	0.00	15		
Total	203.25		100.02	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 715
 start stop duration POSITION: Lat N 951
 TIME : 11:10 11:48 30 (min) Long W 6100
 LOG : 19360.40 9361.00 1.40 Purpose code: 3
 FDEPTH: 45 46 Area code : 4
 BDEPTH: 45 46 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 29 kn*10

Sorted: 30 Kg Total catch: 152.80 CATCH/HOUR: 305.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichurus lepturus	75.00	1050	24.54	
Cynoscion jamaicensis	55.00	770	18.00	235
Chirocentron bleekermanus	44.00	5328	14.40	
Ctenosciaena gracilicirrus	30.00	660	9.02	230
Peprilus paru	30.00	250	9.02	236
Rhizoprionodon porosus	15.00	20	4.91	
Mustelus higmani	15.00	40	4.91	
Penaeus subtilis	14.00	780	4.50	237
Pellona harroweri	10.00	1340	3.27	
Harengula jaguana	7.00	80	2.29	
Macrodontodon opacatus	3.00	10	0.98	
Micropogonias furnieri	3.00	10	0.98	
Loligo pealei	3.00	340	0.90	
Penaeus notialis	1.50	50	0.49	
Eucinostomus gula	0.10	10	0.03	
Upeneus parvus	0.00	10		
Total		305.60	100.00	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 716
 start stop duration POSITION: Lat N 949
 TIME : 12:20 12:58 30 (min) Long W 6104
 LOG : 19366.00 9368.40 1.60 Purpose code: 3
 FDEPTH: 42 37 Area code : 4
 BDEPTH: 42 37 GearCond.code: 1
 Validity code:
 Towing dir: 225° Wire out: 150 m Speed: 31 kn*10

Sorted: 26 Kg Total catch: 79.40 CATCH/HOUR: 158.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentron bleekermanus	33.40	5790	21.03	
Trichurus lepturus	32.50	1240	20.47	
Cynoscion jamaicensis	22.50	462	14.17	
Peprilus paru	17.50	150	11.02	
Pellona harroweri	14.00	2600	8.82	
Scomberomorus cavalla	9.00	6	5.67	
Ctenosciaena gracilicirrus	7.50	160	4.72	
Harengula jaguana	6.00	104	3.71	
Rhizoprionodon porosus	6.00	10	3.70	
Loligo pealei	4.40	450	2.77	
Mylicichthys freminvillei	3.50	6	2.20	
Bagre marinus	2.00	10	1.26	
Micropogonias furnieri	0.50	6	0.31	
Total		158.80	100.00	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 717
 start stop duration POSITION: Lat N 955
 TIME : 13:43 13:47 4 (min) Long W 6104
 LOG : 19374.60 9374.70 0.10 Purpose code: 3
 FDEPTH: 50 50 Area code : 4
 BDEPTH: 50 50 GearCond.code: 9
 Validity code: 9
 Towing dir: 274° Wire out: 200 m Speed: 30 kn*10

Sorted: 3 Kg Total catch: 3.00 CATCH/HOUR: 45.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Micropogonias furnieri	40.50	45	90.00	
Cynoscion virescens	4.50	15	10.00	
Total		45.00	100.00	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 718
 start stop duration POSITION: Lat N 955
 TIME : 14:47 15:17 30 (min) Long W 6110
 LOG : 19381.30 9382.60 1.30 Purpose code: 3
 FDEPTH: 57 55 Area code : 4
 BDEPTH: 57 55 GearCond.code: 1
 Validity code:
 Towing dir: 274° Wire out: 175 m Speed: 24 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
N O C A T C H		0.00		
Total				

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 719
 start stop duration POSITION: Lat N 951
 TIME : 15:58 16:28 30 (min) Long W 6111
 LOG : 19387.70 9389.00 1.30 Purpose code: 3
 FDEPTH: 45 46 Area code : 4
 BDEPTH: 45 46 GearCond.code: 1
 Validity code:
 Towing dir: 300° Wire out: 175 m Speed: 24 kn*10

Sorted: 28 Kg Total catch: 146.60 CATCH/HOUR: 293.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	122.00	3626	41.61	
Ctenosciaena gracilicirrus	82.00	1444	27.97	
Trichurus lepturus	25.00	610	8.53	
Chirocentron bleekermanus	21.00	2760	7.16	
Cynoscion virescens	10.00	30	3.41	
Micropogonias furnieri	7.00	30	2.39	
Loligo pealei	5.00	250	1.71	
Mustelus higmani	4.00	20	1.36	
Rhizoprionodon porosus	3.00	10	1.02	
Lutjanus synagris	3.00	2	1.02	
Peprilus paru	2.50	10	0.85	
Pomatomus saltatrix	2.40	2	0.82	
Penaeus subtilis	2.20	150	0.75	239
Pellona harroweri	2.00	170	0.68	
Lutjanus synagris	2.00	20	0.68	
Prionotus punctatus	0.10	10	0.03	
Harengula jaguana	0.00	10		
Total		293.20	99.99	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 720
 start stop duration POSITION: Lat N 955
 TIME : 17:11 17:41 30 (min) Long W 6118
 LOG : 19394.50 9395.60 1.10 Purpose code: 3
 FDEPTH: 47 45 Area code : 4
 BDEPTH: 47 45 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 200 m Speed: 23 kn*10

Sorted: 29 Kg Total catch: 154.20 CATCH/HOUR: 308.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciaena gracilicirrus	54.40	1152	17.64	
Cynoscion jamaicensis	51.20	2456	16.60	
Trichurus lepturus	38.00	648	12.32	
Macrodontodon opacatus	36.00	248	11.93	240
Chirocentron bleekermanus	23.20	5976	7.52	
Micropogonias furnieri	16.00	24	5.19	242
Trachinotus carolinus	15.00	26	5.19	241
Rhizoprionodon porosus	12.00	18	3.63	
Bagre marinus	11.20	8		
Cynoscion similis	8.40	6	2.72	
Lutjanus synagris	7.00	6	2.27	
Rhizoprionodon porosus	5.60	8	1.82	
Mustelus higmani	4.80	8	1.56	
Bagre marinus	4.60	4	1.49	
Micropogonias furnieri	4.00	16	1.30	
Lutjanus purpureus	3.20	16	1.04	
Sphyrna tiburo	3.00	2	0.97	
Pomatomus saltatrix	2.60	2	0.84	
Mustelus higmani	2.40	6	0.70	
Pellona harroweri	2.40	448	0.70	
Penaeus subtilis	0.80	104	0.26	
Diplectrum bivittatum	0.80	24	0.26	
Penaeus notialis	0.80	24		
Lepophidium profundorum	0.00	64		
Total		308.40	100.00	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 721
 start stop duration POSITION: Lat N 955
 TIME : 18:24 18:54 30 (min) Long W 6125
 LOG : 19401.20 9402.30 1.10 Purpose code: 3
 FDEPTH: 40 38 Area code : 4
 BDEPTH: 40 38 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 20 kn*10

Sorted: 27 Kg Total catch: 95.35 CATCH/HOUR: 190.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	72.60		38.07	
Chirocentron bleekermanus	21.00	3412	11.01	
Ctenosciaena gracilicirrus	15.00	690	7.07	
Mustelus higmani	14.80	26	7.76	
Trichurus lepturus	12.00	156	6.29	
Bagre marinus	10.20	6	5.35	
Lepophidium sp	9.60	378	5.03	
Micropogonias furnieri	8.60	10	4.51	
Diplectrum bivittatum	5.40	120	2.83	
Penaeus notialis	4.80	678	2.52	
Micropogonias furnieri	4.80	18	2.52	
Synodus foetens	4.20	24	2.20	
Rhizoprionodon lalandii	2.60	2	1.36	
Lutjanus purpureus	1.80	20	0.94	
Trachypenaeus sp	1.20	534	0.63	
Penaeus brasiliensis	0.60	72	0.31	
Prionotus punctatus	0.60	78	0.31	
Lagodon rhomboides	0.60	6	0.31	
Penaeus subtilis	0.30	12	0.16	
Synclium micrurus	0.00	30		
Symphurus sp	0.00	6		
Pellona harroweri	0.00	24		
Porichthys pauciradiatus	0.00	66		
Total		190.70	99.90	

DATE: 27/ 8/88 GEAR TYPE: BT No:1 PROJECT STATION: 722
 start stop duration POSITION: Lat N 958
 TIME : 20:00 20:30 30 (min) Long W 6121
 LOG : 19411.10 9412.70 1.60 Purpose code: 3
 FDEPTH: 31 31 Area code : 4
 BDEPTH: 31 31 GearCond.code: 1
 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 31 kn*10

Sorted: 64 Kg Total catch: 126.90 CATCH/HOUR: 253.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Micropogonias furnieri	119.40	294	47.04	245
Cynoscion jamaicensis	36.00	374	14.18	
Lutjanus synagris	20.00	78	11.03	246
Mustelus higmani	12.40	16	4.89	
Eucinostomus argenteus	11.60	214	4.57	
Cynoscion virescens	10.60	8	4.18	
Lepophidium profundorum	9.40	366	3.70	
Trachypenaeus sp	6.00	26	2.36	
Pomadasys corvinaeformis	6.00	26	2.36	
Lutjanus synagris	4.00	196	1.50	247
Alectis ciliaris	3.00	4	1.18	
Prionotus punctatus	2.40	26	0.95	
Chirocentron bleekermanus	2.00	30	0.79	
Synclium micrurus	1.40	120	0.55	
Diodon hystrix	1.40	270	0.55	
Rhinobatos pacellens	1.20	4	0.47	
Lutjanus purpureus	1.00	8	0.39	
Selene vomer	0.60	14	0.24	
Synodus foetens	0.40	20	0.16	
Penaeus notialis	0.20	34	0.08	
Penaeus brasiliensis	0.20	34	0.08	
Penaeus subtilis	0.20	34	0.08	
Penaeus aztecus	0.00	6		
Trichurus lepturus	0.00	6		
Diapterus rhombus	0.00	6		
Prionotus carolinus	0.00	6		
Diplectrum bivittatum	0.00	66		
Porichthys pauciradiatus	0.00	46		
Total		257.40	101.41	

PROJECT STATION: 723
 DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 6115
 start stop duration
 TIME : 21:12 21:42 30 (min) Purpose code: 3
 LOG : 9417.70 9419.10 1.40 Area code : 4
 FDEPTH: 32 32 GearCond.code: 4
 BDEPTH: 32 32 Validity code:
 Towing dir: 00° Wire out: 150 m Speed: 30 kn*10
 Sorted: 27 Kg Total catch: 59.20 CATCH/HOUR: 118.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	52.00	1604	43.92	
Ctenosciaena gracilicirrus	8.00	1160	7.43	
Trichurus lepturus	7.60	76	6.42	
Lepophidium profundorum	6.40	120	5.41	
Trachypenaeus sp	5.60		4.73	
Prionotus punctatus	5.60	168	4.73	
Cynoscion virescens	5.40	6	4.56	
Lutjanus synagris	4.80	32	4.05	
Peprilus paru	4.00	8	3.38	
Citharichthys sp	4.00	192	3.38	
Alectis ciliaris	3.20	4	2.70	
Porichthys pauciradiatus	3.20	80	2.70	
Micropogonias furnieri	3.00	4	2.53	
Lutjanus purpureus	2.40	24	2.03	
Penaeus notialis	1.60	192	1.35	
Cyclosetta chittendeni	0.40	4	0.34	
Diplectrum bivittatum	0.40	16	0.34	
Penaeus subtilis	0.00	56		
Total	118.40		100.00	

PROJECT STATION: 726
 DATE: 28/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 956 Long W 6100
 start stop duration
 TIME : 00:35 01:05 30 (min) Purpose code: 3
 LOG : 9433.90 9434.90 1.00 Area code : 4
 FDEPTH: 52 52 GearCond.code: 4
 BDEPTH: 52 52 Validity code:
 Towing dir: 215° Wire out: 200 m Speed: 21 kn*10
 Sorted: 23 Kg Total catch: 109.00 CATCH/HOUR: 218.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciaena gracilicirrus	45.20	2024	20.73	
Cynoscion jamaicensis	40.00	556	18.35	
Cynoscion similis	33.60	48	15.41	
Micropogonias furnieri	20.00	46	12.84	240
Mustelus higmani	16.00	32	7.34	
Trichurus lepturus	13.60	104	6.24	
Arius grandicassis	11.60	8	5.32	
Peprilus paru	8.00	32	4.04	
Pomadasys croceus	8.00	16	3.67	
Penaeus subtilis	4.80		2.20	249
Chirocentron bleekermanus	1.60	264	0.73	
Prionotus punctatus	1.60	56	0.73	
Ogcocephalus sp	1.20	16	0.55	
Diplectrum sp	0.80	8	0.37	
S H R I M P S	0.00	320	0.37	
Lepophidium sp	0.00	8	0.37	
Anchoa sp	0.00	160	0.37	
Penaeus schmitti	0.00	56	0.37	
Eucinostomus argenteus	0.00	8	0.37	
Syacium sp.	0.00	16		
Porichthys pauciradiatus	0.00	40		
Total	218.00		100.00	

PROJECT STATION: 724
 DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 6111
 start stop duration
 TIME : 22:06 22:36 30 (min) Purpose code: 3
 LOG : 9420.70 9422.10 1.40 Area code : 4
 FDEPTH: 31 35 GearCond.code: 4
 BDEPTH: 31 35 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 28 kn*10
 Sorted: 65 Kg Total catch: 65.20 CATCH/HOUR: 130.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	42.00	750	32.21	
Lutjanus synagris	16.00	122	12.27	
Diplectrum bivittatum	9.20	146	7.06	
Prionotus punctatus	7.60	130	5.83	
Synodus foetens	6.80	52	5.21	
Ctenosciaena gracilicirrus	6.80	206	5.21	
Eucinostomus argenteus	6.20	68	4.75	
Peprilus paru	6.20	16	4.75	
Chirocentron bleekermanus	5.00	1720	4.45	
Trachypenaeus sp	5.40		4.14	
Lepophidium profundorum	5.40	84	4.14	
Diapterus rhombeus	4.60	46	3.53	
Citharichthys sp	3.80	114	2.91	
Porichthys pauciradiatus	3.00	106	2.30	
Penaeus notialis	0.80	122	0.61	
Penaeus brasiliensis	0.00	64	0.61	
Sphoeroides sp	0.00	22		
Cyclosetta chittendeni	0.00	8		
Squilla empusa	0.00	16		
Total	130.40		99.98	

PROJECT STATION: 727
 DATE: 28/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 949 Long W 6106
 start stop duration
 TIME : 02:04 02:34 30 (min) Purpose code: 3
 LOG : 9442.40 9443.00 0.60 Area code : 4
 FDEPTH: 43 45 GearCond.code: 4
 BDEPTH: 43 45 Validity code:
 Towing dir: 280° Wire out: 175 m Speed: 10 kn*10
 Sorted: 4 Kg Total catch: 4.20 CATCH/HOUR: 8.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	4.00	22	47.62	
Cynoscion virescens	3.00	4	35.71	
Peprilus paru	1.40	4	16.67	
Total	8.40		100.00	

PROJECT STATION: 725
 DATE: 27/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 6107
 start stop duration
 TIME : 21:04 21:34 30 (min) Purpose code: 3
 LOG : 9424.50 9426.10 1.60 Area code : 4
 FDEPTH: 40 44 GearCond.code: 4
 BDEPTH: 40 44 Validity code:
 Towing dir: 90° Wire out: 200 m Speed: 29 kn*10
 Sorted: 20 Kg Total catch: 71.00 CATCH/HOUR: 142.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	34.00	516	23.94	
Mustelus higmani	14.80	48	10.42	
Cynoscion virescens	10.60	16	7.46	
Micropogonias furnieri	10.00	16	7.04	
Ctenosciaena gracilicirrus	9.60	632	6.76	
Lutjanus synagris	8.00	22	5.63	
Trachinotus cayennensis	7.00	6	4.93	
Chirocentron bleekermanus	6.40	1136	4.51	
Eucinostomus argenteus	6.40	336	4.51	
Cathorops spixii	6.00	5	4.23	
Shrimps, small, non comm.	5.60	996	3.94	
Porichthys pauciradiatus	5.60	288	3.94	
Trichurus lepturus	4.80	68	3.38	
Lepophidium sp	2.00	56	1.41	
Peprilus paru	1.60	4	1.13	
Lutjanus purpureus	1.60	10	1.13	
Loligo pealei	1.20	40	0.85	
Penaeus subtilis	1.20	80	0.85	
Prionotus punctatus	1.20	72	0.85	
Hemicaranx amblyrhynchus	1.20	4	0.85	
Anchoa sp	0.80	344	0.56	
Synodus poeyi	0.80	24	0.56	
Syacium sp.	0.40	40	0.28	
Penaeus schmitti	0.40	40	0.28	
Penaeus notialis	0.40	24	0.28	
Saurida normani	0.40	8	0.28	
Total	142.00		100.00	

PROJECT STATION: 728
 DATE: 28/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 954 Long W 6110
 start stop duration
 TIME : 03:35 04:00 30 (min) Purpose code: 3
 LOG : 9447.90 9449.00 1.10 Area code : 4
 FDEPTH: 43 46 GearCond.code: 4
 BDEPTH: 43 46 Validity code:
 Towing dir: 290° Wire out: 150 m Speed: 21 kn*10
 Sorted: 22 Kg Total catch: 91.60 CATCH/HOUR: 183.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciaena gracilicirrus	76.00	1880	41.48	
Cynoscion jamaicensis	64.00	1818	34.93	
Prionotus punctatus	11.20	152	6.11	
Trichurus lepturus	8.00	104	4.37	
Cynoscion virescens	6.40	16	3.49	
Peprilus paru	4.80	24	2.62	
Rhizoprionodon lalandii	4.00	8	2.18	
S H R I M P S	2.40	800	1.31	
Penaeus subtilis	1.60	344	0.87	250
Lepophidium profundorum	1.60	24	0.87	
Mustelus higmani	1.20	16	0.66	
Anchoa sp	0.80	144	0.44	
Eucinostomus argenteus	0.80	8	0.44	
Chirocentron bleekermanus	0.40	64	0.22	
Total	183.20		99.99	

PROJECT STATION: 729
 DATE: 28/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 954 Long W 6118
 start stop duration
 TIME : 04:46 05:16 30 (min) Purpose code: 3
 LOG : 9455.60 9456.70 1.10 Area code : 4
 FDEPTH: 40 31 GearCond.code: 4
 BDEPTH: 40 31 Validity code:
 Towing dir: 295° Wire out: 150 m Speed: 21 kn*10
 Sorted: 11 Kg Total catch: 206.30 CATCH/HOUR: 412.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	128.00	5196	31.02	
Chirocentron bleekermanus	48.00	21560	11.63	
Ctenosciaena gracilicirrus	32.00	760	7.76	
Anchoa sp	28.00	8560	6.79	
Micropogonias furnieri	26.00	34	6.45	251
Eucinostomus argenteus	24.00	1280	5.02	
Shrimps, small, non comm.	20.00	4000	4.85	
Cynoscion acoupa	20.00	18	2.91	
Lepophidium sp	12.00	360	2.91	
Diplectrum radiale	12.00	200	2.91	
Trichurus lepturus	12.00	240	2.91	
Cynoscion similis	11.00	30	2.67	
Macrurus ancylodon	8.00	40	1.94	
Prionotus punctatus	8.00	40	1.94	
Porichthys pauciradiatus	8.00	160	1.94	
Lutjanus synagris	7.00	20	1.70	
Synodus foetens	4.00	120	0.97	
Diplectrum formosus	4.00	40	0.97	
Penaeus subtilis	4.00	40		
Penaeus notialis	0.00	80		
Penaeus brasiliensis	0.00	120		
Total	412.60		100.03	

PROJECT STATION: 730
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 955 Long W 6130
 TIME : 06:21 06:51 30 (min) Purpose code: 3
 LOG : 9467.00 9467.80 0.80 Area code : 4
 FDEPTH: 56 48 GearCond.code:
 BDEPTH: 56 48 Validity code:
 Towing dir: 290° Wire out: 200 m Speed: 18 kn*10
 Sorted: 23 Kg Total catch: 157.30 CATCH/HOUR: 314.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	93.00	2930	29.56	
Micropogonias furnieri	57.60	68	18.31	252
Ctenosciaena gracilicirrhua	51.00	2320	16.21	
Cynoscion jamaicensis	33.00	2120	10.49	
Macrondon ancylodon	23.00	180	7.31	
Lepophilidium profundorum	17.00	850	5.40	
Mustelus higmani	12.80	26	4.07	
Penaeus subtilis	10.00	1070	3.18	
Nagro marinus	4.60	2	1.46	
Sphyrna lewini	3.60	2	1.14	
Pellona harroweri	3.00	110	0.95	
Trachypenaeus sp	2.00	870	0.64	
Prionotus punctatus	2.00	140	0.64	
Anchoa spinifer	1.00	170	0.32	
Chirocentron bleekeriannus	1.00	160	0.32	
Penaeus notialis	0.00	10		
Penaeus brasiliensis	0.00	20		
Citharichthys sp	0.00	10		
Ophiocion sp	0.00	10		
CONGRUUM	0.00	30		
Porichthys pauciradiatus	0.00	50		
Total	314.60		100.00	

PROJECT STATION: 731
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 957 Long W 6137
 TIME : 07:25 07:55 30 (min) Purpose code: 3
 LOG : 9472.00 9472.80 0.80 Area code : 4
 FDEPTH: 34 25 GearCond.code:
 BDEPTH: 34 25 Validity code:
 Towing dir: 290° Wire out: 100 m Speed: 17 kn*10
 Sorted: 32 Kg Total catch: 32.60 CATCH/HOUR: 65.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	49.00	914	62.27	
Rhizoprionodon lalandii	9.00	14	13.80	
Scorpaenomorbus cavalla	7.00	2	10.74	
Cynoscion jamaicensis	3.00	28	4.60	
Oligoplites saliens	2.20	2	3.37	
Peprilus paru	1.20	2	1.84	
Lutjanus synagris	0.80	6	1.23	
Lutjanus purpurus	0.60	4	0.92	
Harengula jaguana	0.30	32	0.46	
Orthopristis ruber	0.20	2	0.31	
Pellona harroweri	0.20	10	0.31	
Chirocentron bleekeriannus	0.10	56	0.15	
Anchoa parva	0.00	26		
Total	65.20		100.00	

PROJECT STATION: 732
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 958 Long W 6143
 TIME : 08:36 09:06 30 (min) Purpose code: 3
 LOG : 9478.40 9479.70 1.30 Area code : 4
 FDEPTH: 42 28 GearCond.code:
 BDEPTH: 42 25 Validity code:
 Towing dir: 260° Wire out: 175 m Speed: 26 kn*10
 Sorted: 3 Kg Total catch: 658.65 CATCH/HOUR: 1317.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhinoptera bonasus	1177.00	21	89.35	
Micropogonias furnieri	78.40	76	5.95	253
Macrondon ancylodon	14.60		1.11	
Trichiurus lepturus	10.60	10	0.80	
Arius grandicassis	8.80	4	0.67	
Xiphopenaeus kroyeri	5.20	824	0.39	
Anchoa spinifer	4.60	440	0.35	
Stellifer rastrifer	3.60	410	0.27	
Macrondon ancylodon	3.20	110	0.24	
Penaeus subtilis	3.20	130	0.24	
Narcine brasiliensis	2.80	2	0.21	
Peprilus paru	2.60	14	0.20	
Dasyatis americana	1.70	2	0.13	
Bairdiella sp	0.60	2	0.05	
Oligoplites palometa	0.20	2	0.02	
Synodus foetens	0.20	2	0.02	
Engraulis eurystole	0.00	26		
Sicyonia sp.	0.00	6		
Hilobrandia sp.	0.00	6		
Lepophilidium sp	0.00	20		
Hemiscaranx amblyrhynchus	0.00	3		
Ophiocion sp	0.00	6		
Larus breviceps	0.00	6		
Penaeus brasiliensis	0.00	6		
Total	1317.30		100.00	

PROJECT STATION: 733
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 957 Long W 6148
 TIME : 09:37 10:07 30 (min) Purpose code: 3
 LOG : 9483.20 9484.40 1.20 Area code : 4
 FDEPTH: 19 38 GearCond.code:
 BDEPTH: 19 30 Validity code:
 Towing dir: 280° Wire out: 75 m Speed: 25 kn*10
 Sorted: 4 Kg Total catch: 143.80 CATCH/HOUR: 287.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Epinephelus itajara	160.00	2	55.63	
Chaetodipterus faber	40.00	22	13.91	
Micropogonias furnieri	17.00	18	5.91	
Penaeus subtilis	12.00	600	4.17	255
Anchoa spinifer	11.40	1632	3.96	
Macrondon ancylodon	8.40	100	2.92	
Trichiurus lepturus	6.00	4536	2.09	
Anchoa hepsetus	5.60	74	1.95	
Alectis ciliaris	5.40	1992	1.88	
Xiphopenaeus kroyeri	3.60	708	1.60	
Stellifer rastrifer	3.60	624	1.25	254
Arius grandicassis	3.40	2	1.10	
Chirocentron bleekeriannus	2.40	576	0.83	
Oligoplites saliens	2.00	2	0.70	
Pellona harroweri	1.20	444	0.42	
Micropogonias furnieri	0.60	36	0.21	
Echeneis naucrates	0.40	2	0.14	
Penaeus brasiliensis	0.00	84		
Penaeus notialis	0.00	132		
Trachypenaeus sp	0.00	72		
Nematopalaemon schmitti	0.00	108		
Harengula jaguana	0.00	60		
Total	287.60		100.00	

PROJECT STATION: 734
 DATE: 20/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1000 Long W 6155
 TIME : 11:02 11:32 30 (min) Purpose code: 3
 LOG : 9492.60 9493.40 0.80 Area code : 4
 FDEPTH: 28 30 GearCond.code:
 BDEPTH: 28 30 Validity code:
 Towing dir: 280° Wire out: 125 m Speed: 19 kn*10
 Sorted: 22 Kg Total catch: 22.80 CATCH/HOUR: 45.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	40.00	72	87.72	256
Scienc spixii	2.60	4	5.70	
Arius grandicassis	1.80	2	3.95	
Peprilus paru	1.20	4	2.63	
Total	45.60		100.00	

PROJECT STATION: 735
 DATE: 20/ 8/88 GEAR TYPE: PT No:4 POSITION: Lat N 1047 Long W 6155
 TIME : 19:30 20:00 30 (min) Purpose code: 1
 LOG : 9593.00 9594.30 1.30 Area code : 3
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 90 84 Validity code:
 Towing dir: 261° Wire out: 75 m Speed: 24 kn*10
 Sorted: 4 Kg Total catch: 4.60 CATCH/HOUR: 9.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Strumus teres	7.40	310	80.43	257
Trichiurus lepturus	1.20	2	13.04	
JUVENILE FISHERS	0.40		4.35	
Trachurus lathami	3.20	6	2.17	
Loligo plei	0.00	2		
Porichthys pauciradiatus	0.00	4		
Total	9.20		99.99	

PROJECT STATION: 736
 DATE: 30/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1126 Long W 6219
 TIME : 07:35 08:05 30 (min) Purpose code: 3
 LOG : 9682.30 9682.60 0.30 Area code : 3
 FDEPTH: 90 92 GearCond.code:
 BDEPTH: 96 92 Validity code:
 Towing dir: 270° Wire out: 450 m Speed: 3 kn*10
 Sorted: 37 Kg Total catch: 37.00 CATCH/HOUR: 75.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	23.00	506	30.42	259
Upeneus parvus	18.40	372	24.34	258
Lutjanus vivanus	12.00	2	15.87	
Rhomboplites aurorubens	10.20	38	13.49	260
Auxis thazard	6.10	14	8.07	261
Loligo penlei	2.20	90	2.91	
Pistularia petimba	1.00	4	1.32	
Trachurus lathami	0.80	22	1.06	
Caulolatilus cyanops	0.60	2	0.79	
Loligo plei	0.60	8	0.79	
Ogcocephalus nasutus	0.40	2	0.53	
Syacium papillosum	0.30	4	0.40	
Octopus vulgaris	0.00			
Arionna bondi	0.00	2		
Scorpaena agassizi	0.00	2		
Prionotus punctatus	0.00	6		
Total	75.60		99.99	

PROJECT STATION: 737
 DATE: 30/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047 Long W 6230
 TIME : 15:35 start stop duration Purpose code: 3
 LOG : 9747.70 9748.70 1.00 Area code : 3
 FDEPTH: 67 65 GearCond.code:
 DDEPTH: 67 65 Validity code:
 Towing dir: 280° Wire out: 350 m Speed: 21 kn*10
 Sorted: 84 Kg Total catch: 84.31 CATCH/HOUR: 160.62

PROJECT STATION: 741
 DATE: 31/ 8/88 GEAR TYPE: PT No:2 POSITION: Lat N 1115 Long W 6252
 TIME : 02:35 start stop duration Purpose code: 1
 LOG : 9818.60 9819.60 1.00 Area code : 3
 FDEPTH: 30 25 GearCond.code:
 DDEPTH: 45 41 Validity code:
 Towing dir: 250° Wire out: 100 m Speed: 22 kn*10
 Sorted: 32 Kg Total catch: 64.20 CATCH/HOUR: 120.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Trichurus lepturus	63.40 208	37.60	262
Saurida normani	19.80 224	11.74	
Trachurus lathami	16.00 74	9.49	263
Gymnothorax ocellatus	11.00 12	6.52	
Selar crumenophthalmus	9.40 118	5.57	264
Pristipomoides macropthalmus	6.00 360	3.56	
Rhizopionodon porosus	4.40 4	2.61	
Cyclosetta chittendeni	3.40 4	2.02	
Eucinostomus gula	3.40 38	2.02	
Loligo pealei	3.20 390	1.90	
Mustelus higmani	2.60 4	1.54	
Priacanthus trenatus	2.60 4	1.54	
Upeneus parvus	2.60 4	1.54	
Harengula jaguana	2.40 38	1.42	
Sarda sarda	2.20 2	1.30	
Paralichthys tropicus	2.20 8	1.30	
Sardinella aurita	2.00 16	1.19	
Sphyræna guachancho	2.00 8	1.19	
Octopus vulgaris	2.00 2	1.19	
Ponaeus brasiliensis	1.40 16	0.83	
Surranus phoebe	1.40 60	0.83	
Rhomboplites aurorubens	1.20 4	0.71	
CRABS	1.00 46	0.59	
Lepophidium sp	0.60 2	0.36	
Loligo plei	0.60 10	0.36	
Scorpaena isthmensis	0.50 2	0.30	
Pistularia petimba	0.50 2	0.30	
Lonchopisthus higmani	0.30 8	0.18	
Scomber japonicus	0.30 2	0.18	
Porichthys sp	0.12 24	0.07	
Dactylopterus volitans	0.10 2	0.06	
Total	166.62	100.01	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	120.00 2050	93.46	277
Selar crumenophthalmus	3.60 36	2.80	
Decapterus punctatus	2.00 24	1.56	
Scomber japonicus	1.20 12	0.93	
Decapterus tabl	1.20 12	0.93	
Decapterus macarellus	0.40 4	0.31	
Total	128.40	99.99	

PROJECT STATION: 742
 DATE: 31/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1136 Long W 6253
 TIME : 07:35 start stop duration Purpose code: 3
 LOG : 9959.90 9960.70 0.80 Area code : 3
 FDEPTH: 424 452 GearCond.code:
 DDEPTH: 424 452 Validity code:
 Towing dir: 340° Wire out: 1300 m Speed: 23 kn*10
 Sorted: 27 Kg Total catch: 27.20 CATCH/HOUR: 65.28

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Dalatias licha	21.36 2	32.72	
Steindachneria argenta	7.68 271	11.76	
Glyphocrangon sp	5.28 1600	8.09	
Chauliodus sloani	5.04 322	7.72	
Bembrops anatiostris	3.60 48	5.51	
Aristaeomorpha foliacea	2.88 115	4.41	278
Hydrolagus alberti	2.40 5	3.68	
Promethichthys prometheus	2.40 132	3.68	
Laemoneus sp	2.40 36	3.68	
Illex coindetti	1.68 17	2.57	
Pennaeopsis serrata	1.68 177	2.57	279
Hymenocephalus italicus	1.20 130	1.84	
Lepidopus caulatus	1.20 26	1.84	
Squalus blainvilliei	0.84 2	1.29	
MORIDAE	0.72 14	1.10	
Etmopterus pusillus	0.72 10	1.10	
Symphurus bellus	0.72 16	1.10	
POLYCHMIDAE	0.48 43	0.74	
Ariomma bondi	0.48 10	0.74	
Polymixia mobilis	0.48 7	0.74	
Gurgesiella atlantica	0.48 2	0.74	
Peristodion sp	0.48 12	0.74	
Argyropelecus sp	0.24 50	0.37	
Ornithoteuthis antillarum	0.24 2	0.37	
Dentichalcus tenuis	0.24 34	0.37	
Dipllophos madorensis	0.24 5	0.37	
OPLOPHORIDAE	0.12 53	0.18	
Zenion hololepis	0.00 17		
Hoplostethus occidentalis	0.00 7		
Cyttopsis roseus	0.00 2		
Plesionika edwardsii	0.00 2		
Pontania sp.	0.00 7		
HYCOPHIDAE	0.00 12		
Bregmaceros sp.	0.00 19		
Xenolepidichthys dalgleishi	0.00 7		
ARGENTINIDAE	0.00 2		
Total	65.28	100.02	

PROJECT STATION: 738
 DATE: 30/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1045 Long W 6250
 TIME : 17:45 start stop duration Purpose code: 3
 LOG : 9761.10 9762.60 1.50 Area code : 3
 FDEPTH: 44 37 GearCond.code:
 DDEPTH: 44 37 Validity code:
 Towing dir: 230° Wire out: 250 m Speed: 30 kn*10
 Sorted: 23 Kg Total catch: 51.60 CATCH/HOUR: 103.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Ctenoscoiaena gracilicirrus	50.00 3912	49.03	265
Trachurus lathami	28.00 840	27.03	266
Cynoscion jamaicensis	9.20 120	8.88	
Paralichthys tropicus	3.40 6	3.28	
Caeterops spixii	3.20 44	3.09	
Trichurus lepturus	2.00 16	1.93	
Harengula jaguana	1.80 28	1.74	
Ponaeus notialis	1.80 46	1.74	267
Lepophidium profundorum	0.60 4	0.58	
Sphyræna picudilla	0.60 4	0.58	
Synodus foetens	0.60 6	0.58	
Gymnothorax ocellatus	0.60 4	0.58	
Loligo pealei	0.40 80	0.39	
Diplectrum formosum	0.40 2	0.39	
Porichthys pauciradiatus	0.20 76	0.19	
Chirocentron blookerianus	0.00 16		
Total	103.60	100.01	

PROJECT STATION: 743
 DATE: 31/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1145 Long W 6305
 TIME : 10:50 start stop duration Purpose code: 3
 LOG : 9884.40 9885.30 0.90 Area code : 2
 FDEPTH: 807 878 GearCond.code:
 DDEPTH: 807 878 Validity code:
 Towing dir: 292° Wire out: 2100 m Speed: 1 kn*10
 Sorted: 30 Kg Total catch: 92.40 CATCH/HOUR: 92.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Miscellaneous fish	29.10	31.49	
Nozumia suilla	11.40 240	12.34	
Nozumia cyrano	9.30 66	10.06	
Dicrolene intronigra	5.70 120	6.17	
Stereonastis sculpta	4.50 123	4.87	
Acanthephyra exilis	4.50 93	4.87	281
Ornithoteuthis antillarum	3.90 63	4.22	
Monomictopus sp	3.60 75	3.90	
Onthesicymus bartletti	3.30 462	3.57	
Pholidoteuthis adami	3.00 12	3.25	
Plesionika edwardsianus	2.85 39	3.08	280
Nematocarcinus rotundus	1.80 150	1.95	
OPLOPHORIDAE	1.80 216	1.95	
Glyphocrangon sp	1.80 360	1.95	
Hydrolagus alberti	1.20 3	1.30	
Coeloclinchus octo	1.20 9	1.30	
Peristodion minutum	0.90 9	0.97	
Bathynorus giganteus	0.75 6	0.81	
Illex coindetti	0.60 3	0.65	
SQUALIDAE	0.60 3	0.65	
Aristeus sp	0.30 108	0.32	
OPHITHOZEUTHIDAE	0.24 3	0.26	
Gnathophausia zoea	0.03 21	0.03	
Fosiphæa merriami	0.03 27	0.03	
Heteroteuthis atlantis	0.00 6		
Bregmaceros atlanticus	0.00 21		
Total	92.40	99.99	

PROJECT STATION: 739
 DATE: 30/ 8/88 GEAR TYPE: PT No:4 POSITION: Lat N 1047 Long W 6245
 TIME : 20:10 start stop duration Purpose code: 1
 LOG : 9774.90 9776.20 1.30 Area code : 3
 FDEPTH: 10 10 GearCond.code:
 DDEPTH: 48 47 Validity code:
 Towing dir: 280° Wire out: 150 m Speed: 25 kn*10
 Sorted: 50 Kg Total catch: 156.79 CATCH/HOUR: 313.58

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Harengula jaguana	196.50 2982	62.66	269
Trichurus lepturus	62.60 144	19.96	260
Sardinella aurita	52.50 648	16.74	270
Sphyræna picudilla	1.24 6	0.40	
Engraulis eurystole	0.74 162	0.24	271
Octopus defillippi	0.00 6		
Total	313.58	100.00	

PROJECT STATION: 740
 DATE: 30/ 8/88 GEAR TYPE: PT No:2 POSITION: Lat N 1107 Long W 6255
 TIME : 23:40 start stop duration Purpose code: 1
 LOG : 9799.40 9801.10 1.70 Area code : 3
 FDEPTH: 17 10 GearCond.code:
 DDEPTH: 29 28 Validity code:
 Towing dir: 250° Wire out: 75 m Speed: 29 kn*10
 Sorted: 52 Kg Total catch: 52.20 CATCH/HOUR: 104.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	83.00 1486	79.50	272
Selar crumenophthalmus	7.00 60	6.70	273
Decapterus punctatus	4.00 104	3.83	276
Decapterus macarellus	4.00 122	3.83	275
Decapterus tabl	3.00 30	2.87	274
Loligo pealei	1.40 108	1.34	
Echeneis remora	1.00 2	0.96	
Sphyræna picudilla	0.60 2	0.57	
Haemulon boeckmae	0.40 12	0.38	
Upeneus parvus	0.00 2		
Total	104.40	99.98	

PROJECT STATION: 744
 DATE: 31/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1127 Long W 6332
 start stop duration
 TIME : 16:00 16:30 30 (min) Purpose code: 3
 LOG : 9920.00 9921.60 1.60 Area code : 3
 FDEPTH: 43 42 GearCond.code:
 BDEPTH: 43 42 Validity code:
 Towing dir: 230 Wire out: 250 m Speed: 30 kn*10

Sorted: 20 Kg Total catch: 66.00 CATCH/HOUR: 133.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus purpureus	39.00	0	29.19	282
Haemulon boschmae	30.00	1554	22.46	206
Priacanthus aronatus	30.00	90	22.46	203
Haemulon steindachneri	9.40	88	7.04	
Rhomboplites aurorubens	7.80	226	5.84	204
Upeneus parvus	7.00	216	5.24	205
Haemulon aurolineatum	2.80	10	2.10	
Loligo plei	2.40	30	1.00	
Cyclopetta chittendeni	1.60	4	1.20	
Mutolus canis	1.20	2	0.90	
Fistularia potimba	1.00	4	0.75	
Synodus foetens	0.80	4	0.60	
Eucinostomus havana	0.20	4	0.15	
Seriola rivoliana	0.20	10	0.15	
Decapterus punctatus	0.20	12	0.15	
Saurida normani	0.04	4	0.03	
Diplectrum formosum	0.04	10	0.03	
Pristigaster macrophthalmus	0.00	4		
Diplectrum radiale	0.00	4		
Total	133.68		100.09	

PROJECT STATION: 745
 DATE: 31/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1125 Long W 6336
 start stop duration
 TIME : 17:05 17:35 30 (min) Purpose code: 3
 LOG : 9925.00 9926.20 1.20 Area code : 3
 FDEPTH: 40 40 GearCond.code:
 BDEPTH: 40 40 Validity code: 9
 Towing dir: 250 Wire out: 225 m Speed: 24 kn*10

Sorted: 10 Kg Total catch: 10.30 CATCH/HOUR: 20.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Loligo plei	10.80	360	52.43	287
Octopus vulgaris	4.60	4	22.33	
Caranx crysos	4.60	2	22.33	
Echeneis naucrates	0.60	6	2.91	
Total	20.60		100.00	

PROJECT STATION: 746
 DATE: 31/ 8/88 GEAR TYPE: BT No:1 POSITION: Lat N 1126 Long W 6339
 start stop duration
 TIME : 18:00 18:30 30 (min) Purpose code: 3
 LOG : 9927.30 9928.50 1.20 Area code : 3
 FDEPTH: 40 40 GearCond.code:
 BDEPTH: 40 40 Validity code:
 Towing dir: 270 Wire out: 250 m Speed: 23 kn*10

Sorted: 58 Kg Total catch: 117.90 CATCH/HOUR: 235.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon boschmae	142.20	10980	60.31	208
Lutjanus analis	46.00	6	19.85	
Lutjanus purpureus	12.60	2	5.34	291
Rhomboplites aurorubens	11.80	276	5.00	290
Loligo plei	10.50	406	4.45	289
Solene spixii	5.40	6	2.29	
Homocaranx amblyrhynchus	1.80	4	0.76	
Scomberomorus cavalla	1.60	2	0.60	
Sphyrana picudilla	1.00	10	0.42	
Holocentrus adscensionis	0.90	4	0.38	
Salar eromonophthalmus	0.60	5	0.25	
Upeneus parvus	0.30	12	0.13	
Diplectrum bivittatum	0.20	2	0.08	
Decapterus macarellus	0.00	4		
Total	235.70		99.94	

PROJECT STATION: 747
 DATE: 31/ 8/88 GEAR TYPE: FT No:4 POSITION: Lat N 1114 Long W 6350
 start stop duration
 TIME : 20:35 21:05 30 (min) Purpose code: 1
 LOG : 9944.10 9945.00 1.70 Area code : 3
 FDEPTH: 13 13 GearCond.code:
 BDEPTH: 20 20 Validity code:
 Towing dir: 100 Wire out: 125 m Speed: 35 kn*10

Sorted: 25 Kg Total catch: 303.25 CATCH/HOUR: 606.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa filifera	284.60	147020	46.92	292
Anchoa hepsetus	100.40	54204	29.74	293
Loligo plei	46.00	1694	7.72	
Sardinella aurita	28.20	2170	4.65	294
Trichiurus lepturus	25.00	10	4.12	
Carcharias porosus	18.00	6	2.97	
Bagre marinus	12.00	6	1.98	
Harengula jaguana	6.50	216	1.07	
Opisthonema oglinus	2.20	20	0.36	
Sphyrana guachancho	2.00	2	0.33	
Scomberomorus cavalla	0.80	2	0.13	
JELLYFISH	0.00			
Total	606.50		99.99	

PROJECT STATION: 748
 DATE: 1/ 9/88 GEAR TYPE: FT No:4 POSITION: Lat N 1107 Long W 6335
 start stop duration
 TIME : 00:25 01:05 40 (min) Purpose code: 1
 LOG : 9973.20 9975.60 2.40 Area code : 3
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 31 30 Validity code:
 Towing dir: 235 Wire out: 125 m Speed: 32 kn*10

Sorted: 31 Kg Total catch: 404.50 CATCH/HOUR: 606.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	592.80	9917	97.70	295
Decapterus punctatus	5.85	137	0.96	
Axius sp	5.05	20	0.96	
Bagre marinus	2.25	2	0.37	
Total	606.75		99.99	

PROJECT STATION: 749
 DATE: 1/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1157 Long W 6310
 start stop duration
 TIME : 06:30 07:00 30 (min) Purpose code: 3
 LOG : 21.10 22.20 1.10 Area code : 3
 FDEPTH: 41 38 GearCond.code:
 BDEPTH: 41 38 Validity code:
 Towing dir: 152 Wire out: 200 m Speed: 27 kn*10

Sorted: 33 Kg Total catch: 33.85 CATCH/HOUR: 67.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dactylopterus volitans	14.40	90	21.27	
Lutjanus purpureus	12.00	56	17.73	299
Haemulon steindachneri	12.00	126	17.73	296
Priacanthus aronatus	7.30	42	10.78	298
Octopus vulgaris	3.40	4	5.02	
Synodus foetens	3.20	16	4.73	
Gymnothorax ocellatus	3.00	24	4.43	
Haemulon aurolineatum	3.00	36	4.43	297
Balistus vetula	1.80	6	2.66	
Sphyrana picudilla	1.70	6	2.51	
Fistularia petimba	1.60	8	2.36	
Aluterus monoceros	1.20	2	1.77	
Diplectrum formosum	0.80	14	1.18	
Loligo plei	0.60	20	0.89	
Loligo pealei	0.40	16	0.59	
Ancyllopseta quadrocellata	0.40	2	0.59	
Sardinella aurita	0.30	6	0.44	
Haemulon boschmae	0.30	10	0.44	
Diplectrum radiale	0.20	8	0.30	
Synodus poeyi	0.10	6	0.15	
Decapterus punctatus	0.00	2		
Upeneus parvus	0.00	2		
Pennacus brasiliensis	0.00	2		
Total	67.75		100.00	

PROJECT STATION: 750
 DATE: 1/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1049 Long W 6306
 start stop duration
 TIME : 09:05 09:35 30 (min) Purpose code: 3
 LOG : 38.90 40.30 1.40 Area code : 3
 FDEPTH: 39 46 GearCond.code:
 BDEPTH: 39 46 Validity code:
 Towing dir: 290 Wire out: 250 m Speed: 27 kn*10

Sorted: 56 Kg Total catch: 281.00 CATCH/HOUR: 562.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	200.00	3230	35.59	301
Rhomboplites aurorubens	150.00	3150	26.69	300
Trachurus lalandi	64.00	2430	11.39	302
Trichiurus lepturus	30.00	130	6.76	
Dactylopterus volitans	32.50	840	5.78	
Scomber japonicus	31.50	310	3.56	304
Haemulon boschmae	20.00	1060	5.60	303
Synodus foetens	8.00	50	1.42	
Priacanthus arenatus	6.00	160	1.07	
Eucinostomus argenteus	2.50	30	0.44	
Harengula jaguana	2.00	40	0.36	
Lutjanus purpureus	2.00	10	0.36	
Diplectrum formosum	1.50	20	0.27	
Sparisoma sp.	1.00	10	0.18	
Stephanolepis hispidus	1.00	10	0.18	
Paralichthys tropicus	1.00	10	0.18	
Haemulon steindachneri	1.00	50	0.18	
Diplectrum radiale	0.00	10		
Total	562.00		100.01	

PROJECT STATION: 751
 DATE: 1/ 9/88 GEAR TYPE: FT No:4 POSITION: Lat N 1047 Long W 6304
 start stop duration
 TIME : 10:40 11:25 45 (min) Purpose code: 1
 LOG : 46.10 48.20 2.10 Area code : 3
 FDEPTH: 29 35 GearCond.code:
 BDEPTH: 30 40 Validity code:
 Towing dir: 290 Wire out: 100 m Speed: 23 kn*10

Sorted: 500 Kg Total catch: 5000.00 CATCH/HOUR: 6666.67

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	6666.67	13979	100.00	305
Total	6666.67		100.00	

PROJECT STATION: 752
 DATE: 1/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1046 Long W 6313
 start stop duration
 TIME : 12:45 13:15 30 (min) Purpose code: 3
 LOG : 56.30 57.80 1.50 Area code : 3
 FDEPTH: 28 35 GearCond.code:
 BDEPTH: 28 35 Validity code:
 Towing dir: 325 Wire out: 150 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 493.20 CATCH/HOUR: 986.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cathorops spixii	468.00	12402	47.45	306
Pellona harroweri	378.00	8442	38.32	307
Harengula jaguana	54.00	1116	5.47	308
Rhizoprionodon porosus	54.00	72	5.47	
Peprilus paru	14.40	180	1.46	
Sphyrana picudilla	12.60	72	1.28	
Sphyrana guachancho	5.40	36	0.55	
Loligo plei	0.00	30		
Loligo pealei	0.00	72		
Ctenocephala gracilicirrus	0.00	72		
Total	986.40		100.00	

PROJECT STATION: 753
 DATE: 1/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1059 Long W 6324
 start stop duration Purpose code: 3
 TIME : 15:35 16:05 30 (min) Area code : 3
 LOG : 77.60 70.70 1.10 GearCond.code: 3
 FDEPTH: 36 37 Validity code:
 BDEPTH: 36 37
 Towing dir: 270° Wire out: 200 m Speed: 23 kn*10
 Sorted: 38 Kg Total catch: 38.45 CATCH/HOUR: 76.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Chloroscombrus chrysurus	21.20 102	27.57	310
Maemulon boschniae	18.80 766	24.45	309
Scomberomorus cavalla	9.00 8	11.70	311
Paprilus paru	7.00 12	9.10	
Sphyræna guachancho	5.80 6	7.54	
Loligo plei	5.60 716	7.20	
Sardinella aurita	3.20 30	4.16	
Echeneis naucrates	2.80 6	3.64	
Archosargus rhomboidalis	0.80 2	1.04	
Synodus foetens	0.80 2	1.04	
Acanthostracion quadricornis	0.50 2	0.65	
Saurida normani	0.40 18	0.52	
Selar crumenophthalmus	0.30 2	0.39	
Sphyræna picudilla	0.30 2	0.39	
Dactylopterus volitans	0.20 2	0.26	
Eucinostomus argenteus	0.20 2	0.26	
Diplectrum bivittatum	0.00 2		
Total	76.90	99.99	

PROJECT STATION: 756
 DATE: 2/ 9/88 GEAR TYPE: PT No:4 POSITION:Lat N 1029 Long W 6404
 start stop duration Purpose code: 1
 TIME : 20:30 21:00 30 (min) Area code : 3
 LOG : 262.60 264.30 1.70 GearCond.code: 3
 FDEPTH: 5 5 Validity code:
 BDEPTH: 35 43
 Towing dir: 151° Wire out: 125 m Speed: 32 kn*10
 Sorted: 43 Kg Total catch: 43.45 CATCH/HOUR: 86.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Anchoa parva	64.40 22218	74.11	319
Trichiurus lepturus	7.40 22	8.52	320
Chirocentron bleekermanus	4.20 892	4.83	
Sphyræna picudilla	2.80 20	3.22	
Paprilus paru	2.50 12	2.88	
Tylosurus crocodillus	2.10 2	2.42	
Loligo plei	2.00 374	2.30	
Sphyræna guachancho	0.90 2	1.04	
Harengula jaguana	0.30 20	0.35	
Selar crumenophthalmus	0.20 2	0.23	
Sardinella aurita	0.10 4	0.12	
Etrumeus teres	0.00 2		
Total	86.90	100.02	

PROJECT STATION: 754
 DATE: 1/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1050 Long W 6325
 start stop duration Purpose code: 3
 TIME : 17:30 18:00 30 (min) Area code : 3
 LOG : 69.90 91.40 1.50 GearCond.code: 3
 FDEPTH: 50 51 Validity code:
 BDEPTH: 50 51
 Towing dir: 320° Wire out: 250 m Speed: 29 kn*10
 Sorted: 22 Kg Total catch: 56.20 CATCH/HOUR: 112.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trachurus lathami	51.00 1440	45.37	312
Sardinella aurita	20.20 404	17.97	313
Cathorops spixii	14.80 272	13.17	
Rhizoprionodon porosus	14.50 14	12.90	
Trachinotus cayennensis	2.40 2	2.14	
Trachinotus carolinus	2.40 2	2.14	
Orthopristis ruber	1.60 4	1.42	114
Diplectrum formosum	1.20 4	1.07	
Cynoscion jamaicensis	0.60 4	0.53	
Eucinostomus argenteus	0.60 20	0.53	
Trichiurus lepturus	0.50 2	0.44	
Loligo plei	0.40 36	0.36	
Sphyræna guachancho	0.40 4	0.36	
Eucinostomus gula	0.40 16	0.36	
Ctenosciaena gracilicirrus	0.40 20	0.36	
Pellona harroweri	0.40 16	0.36	
Synodus foetens	0.20 2	0.18	
Etrumeus teres	0.20 36	0.18	
Diapturus rhombus	0.20 4	0.18	
Harengula jaguana	0.00 4		
Squilla sp	0.00 6		
Total	112.40	100.02	

PROJECT STATION: 759
 DATE: 2/ 9/88 GEAR TYPE: PT No:2 POSITION:Lat N 1028 Long W 6415
 start stop duration Purpose code: 1
 TIME : 23:05 23:35 30 (min) Area code : 3
 LOG : 280.20 282.20 2.00 GearCond.code: 3
 FDEPTH: 58 58 Validity code:
 BDEPTH: 500 373
 Towing dir: 52° Wire out: 175 m Speed: 37 kn*10
 Sorted: 309 Kg Total catch: 309.75 CATCH/HOUR: 619.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Alopius superciliosus	560.00 4	90.40	
Etrumeus teres	58.80 3276	9.49	321
Trachurus lathami	0.30 22	0.05	
Sphyræna picudilla	0.30 2	0.05	
Scomber japonicus	0.10 2	0.02	
MYCTOPHIDAE	0.00 2		
Pomaxus brasiliensis	0.00 2		
Saurida normani	0.00 2		
Prionotus stearnsi	0.00 2		
Harengula jaguana	0.00 2		
Upeneus parvus	0.00 2		
Total	619.50	100.01	

PROJECT STATION: 755
 DATE: 1/ 9/88 GEAR TYPE: PT No:4 POSITION:Lat N 1049 Long W 6324
 start stop duration Purpose code: 1
 TIME : 19:05 19:45 40 (min) Area code : 3
 LOG : 98.00 100.10 2.10 GearCond.code: 3
 FDEPTH: 20 10 Validity code:
 BDEPTH: 44 40
 Towing dir: 330° Wire out: 125 m Speed: 32 kn*10
 Sorted: 29 Kg Total catch: 1218.00 CATCH/HOUR: 1827.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	1827.00 25803	100.00	315
Bregmaceros sp.	0.00		
Total	1827.00	100.00	

PROJECT STATION: 760
 DATE: 3/ 9/88 GEAR TYPE: PT No:2 POSITION:Lat N 1023 Long W 6434
 start stop duration Purpose code: 1
 TIME : 02:45 03:15 30 (min) Area code : 3
 LOG : 308.90 310.10 1.20 GearCond.code: 3
 FDEPTH: 40 40 Validity code:
 BDEPTH: 130 139
 Towing dir: 310° Wire out: 150 m Speed: 23 kn*10
 Sorted: 31 Kg Total catch: 31.05 CATCH/HOUR: 62.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Etrumeus teres	60.40 3276	97.26	322
Saurida normani	0.50 80	0.81	
Loligo pealei	0.40 10	0.64	
Scomber japonicus	0.40 4	0.64	
Prionotus stearnsi	0.40 4	0.64	
Total	62.10	99.99	

PROJECT STATION: 761
 DATE: 1/ 9/88 GEAR TYPE: PT No:4 POSITION:Lat N 1046 Long W 6329
 start stop duration Purpose code: 1
 TIME : 22:10 22:45 35 (min) Area code : 3
 LOG : 118.50 120.50 2.00 GearCond.code: 3
 FDEPTH: 13 13 Validity code:
 BDEPTH: 29 27
 Towing dir: 100° Wire out: 125 m Speed: 35 kn*10
 Sorted: 63 Kg Total catch: 255.20 CATCH/HOUR: 437.49

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	251.66 3775	57.52	316
Cathorops spixii	108.34 4461	24.76	
Sphyræna picudilla	15.43 55	3.53	
Trachinotus carolinus	12.34 7	2.82	
Anchoa filifera	11.66 2914	2.67	
Harengula jaguana	11.66 473	2.67	317
Trichiurus lepturus	10.97 27	2.51	
Mugil curema	4.80 7	1.10	
Pomatomus saltatrix	3.43 7	0.78	
Sphyræna guachancho	3.43 2	0.78	
Loligo pealei	2.06 185	0.47	
Echeneis naucrates	1.03 7	0.24	
Pomaxus notialis	0.69 14	0.16	
Total	437.50	100.01	

PROJECT STATION: 762
 DATE: 3/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1013 Long W 6455
 start stop duration Purpose code: 3
 TIME : 06:10 06:40 30 (min) Area code : 3
 LOG : 334.80 335.90 1.10 GearCond.code: 3
 FDEPTH: 40 38 Validity code:
 BDEPTH: 40 38
 Towing dir: 270° Wire out: 200 m Speed: 26 kn*10
 Sorted: 13 Kg Total catch: 13.95 CATCH/HOUR: 27.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sphyræna guachancho	6.80 28	24.37	323
Trichiurus lepturus	5.70 6	20.43	
Chloroscombrus chrysurus	4.20 122	15.05	325
Sphyræna picudilla	3.40 24	12.19	324
Priacanthus arenatus	2.30 4	8.24	
Diplectrum radiale	1.80 14	6.45	
Selar crumenophthalmus	1.50 10	5.30	
Diplectrum bivittatum	0.60 30	2.15	
Loligo pealei	0.50 80	1.79	
Loligo plei	0.50 180	1.79	
Synodus foetens	0.30 2	1.08	
Silene spixii	0.20 2	0.72	
Upeneus parvus	0.10 6	0.36	
Pomaxus notialis	0.00		
Total	27.90	100.00	

PROJECT STATION: 757
 DATE: 2/ 9/88 GEAR TYPE: PT No:4 POSITION:Lat N 1054 Long W 6342
 start stop duration Purpose code: 1
 TIME : 01:10 01:40 30 (min) Area code : 3
 LOG : 140.10 141.40 1.30 GearCond.code: 3
 FDEPTH: 10 15 Validity code:
 BDEPTH: 35 36
 Towing dir: 60° Wire out: 100 m Speed: 31 kn*10
 Sorted: 32 Kg Total catch: 131.60 CATCH/HOUR: 263.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	226.80 4212	86.17	318
Sphyræna picudilla	15.20 40	5.78	
Sphyræna guachancho	12.00 30	4.56	
Trichiurus lepturus	2.80 16	1.06	
Opisthonema oglinum	2.40 48	0.91	
Harengula jaguana	2.40 48	0.91	
Trachurus lathami	1.60 32	0.61	
Total	263.20	100.00	

PROJECT STATION: 762
 DATE: 3/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1013 Long W 6506
 TIME : 07:50 start stop duration 30 (min) Purpose code: 3
 LOG : 346.30 347.50 1.20 Area code : 3
 FDEPTH: 32 34 GearCond.code: 3
 BDEPTH: 32 34 Validity code:
 Towing dir: Wire out: 150 m Speed: 27 kn*10
 Sorted: 56 Kg Total catch: 56.25 CATCH/HOUR: 112.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	59.40	80	52.80	
Haemulon boschmae	11.20	620	9.96	327
Selene voaser	9.50	10	8.44	
Eucinostomus argenteus	5.60	198	4.98	
Anchoa hepsetus	5.40	52	4.80	326
Chloroscopus auratus	4.20	34	3.73	
Priacanthus arenatus	3.20	6	2.84	
Balistes capricornis	3.00	4	2.67	
Bayre marinus	2.40	2	2.13	
Sphyræna guachancho	2.30	4	2.04	
Rhizoprionodon porosus	1.60	2	1.42	
Upeneus parvus	1.10	70	0.98	
Fistularia petimba	0.70	4	0.62	
Pristipomoides macrophthalmus	0.60	52	0.53	
Echeneis naucrates	0.60	2	0.53	
Loligo plei	0.50	56	0.44	
Diplectrum bivittatum	0.30	10	0.27	
Synodus poeyi	0.20	2	0.18	
Lutjanus purpureus	0.20	2	0.18	
Sardinella aurita	0.20	10	0.18	
Sphyræna picudilla	0.20	2	0.18	
Decapterus punctatus	0.10	4	0.09	
Total	112.50		99.99	

PROJECT STATION: 763
 DATE: 3/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1027 Long W 6506
 TIME : 09:55 start stop duration 18 (min) Purpose code: 3
 LOG : 360.60 361.40 0.80 Area code : 3
 FDEPTH: 73 73 GearCond.code: 3
 BDEPTH: 73 73 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 24 kn*10
 Sorted: 44 Kg Total catch: 44.65 CATCH/HOUR: 148.83

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	36.33	773	24.41	328
Trachurus lathami	21.00	853	14.11	331
Upeneus parvus	20.67	1033	13.89	
Pristipomoides macrophthalmus	18.00	600	12.09	329
Rhizoprionodon porosus	13.50	7	9.07	
Haemulon boschmae	13.33	543	8.96	330
Sphyræna guachancho	10.67	20	7.17	
Aluturus monoceros	7.67	7	5.15	
Priacanthus arenatus	2.33	57	1.57	
Fistularia petimba	1.33	13	0.09	
Loligo plei	1.00	23	0.67	
Sardinella aurita	0.83	17	0.56	
Dactylopterus volitans	0.83	3	0.56	
Lagocephalus laevis	0.67	3	0.45	
Haemulon steindachneri	0.33	3	0.22	
Saurida normani	0.17	3	0.11	
Diplectrum bivittatum	0.17	3	0.11	
Total	148.83		99.99	

PROJECT STATION: 764
 DATE: 3/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1023 Long W 6450
 TIME : 12:35 start stop duration 30 (min) Purpose code: 3
 LOG : 302.80 304.10 1.30 Area code : 3
 FDEPTH: 82 80 GearCond.code: 3
 BDEPTH: 82 80 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: 20 kn*10
 Sorted: 55 Kg Total catch: 55.45 CATCH/HOUR: 110.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	28.60	1190	25.79	332
Lutjanus griseus	18.86	2	16.95	
Pristipomoides macrophthalmus	16.00	726	14.43	333
Sphyræna guachancho	10.40	16	9.38	
Lachnolaimus maxinus	6.60	2	5.95	
Lutjanus analis	4.50	2	4.06	
Aetobatus narinari	4.10	2	3.70	
Eucinostomus argenteus	4.00	80	3.61	334
Cyclosetta chittendeni	3.00	2	3.43	
Loligo plei	3.40	130	3.07	
Fistularia petimba	2.80	24	2.52	
Caulolatilus chrysois	2.00	2	1.80	
Calamus pennatula	1.40	2	1.26	
Pagrus pagrus	1.00	10	0.90	
Haemulon aurolineatum	1.00	10	0.90	
Upeneus parvus	1.00	42	0.90	
Priacanthus arenatus	0.80	10	0.72	
Haemulon boschmae	0.40	4	0.36	
Synodus poeyi	0.20	2	0.18	
Haemulon steindachneri	0.10	2	0.09	
Serranus phoebe	0.00	2		
Total	110.90		100.00	

PROJECT STATION: 765
 DATE: 3/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1024 Long W 6433
 TIME : 15:56 start stop duration 30 (min) Purpose code: 3
 LOG : 408.20 409.60 1.40 Area code : 3
 FDEPTH: 115 136 GearCond.code: 3
 BDEPTH: 116 136 Validity code:
 Towing dir: 260° Wire out: 600 m Speed: 27 kn*10
 Sorted: 102 Kg Total catch: 1208.95 CATCH/HOUR: 2577.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	1540.00	10256	59.74	337
Ctenosciaena gracilicirrus	935.00	12342	36.27	338
Mustelus canis	25.00	76	0.97	
Pristipomoides macrophthalmus	20.00	376	0.78	
Loligo plei	17.50	400	0.68	
Priacanthus arenatus	14.00	42	0.54	336
Pomadasys croceus	7.50	26	0.29	
Pareques sp	5.00	26	0.19	
Serranus dewegeri	3.60	26	0.14	
Fistularia petimba	3.60	26	0.14	
Pseudupeneus maculatus	3.60	26	0.14	
Penaeus brasiliensis	1.40	22	0.05	335
Upeneus parvus	1.24	50	0.05	
Serranus phoebe	0.00	26		
Total	2577.44		99.98	

PROJECT STATION: 766
 DATE: 3/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1036 Long W 6424
 TIME : 20:40 start stop duration 30 (min) Purpose code: 1
 LOG : 443.40 445.00 1.60 Area code : 3
 FDEPTH: 5 5 GearCond.code: 3
 BDEPTH: 263 550 Validity code:
 Towing dir: 166° Wire out: 125 m Speed: 31 kn*10
 Sorted: 3 Kg Total catch: 3.15 CATCH/HOUR: 6.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	3.00	12	47.62	
Selar crummonophthalmus	2.40	28	38.10	339
Sardinella aurita	0.50	6	7.94	
Auxis thazard	0.40	4	6.35	
Bregmaceros sp.	0.00			
Total	6.30		100.01	

PROJECT STATION: 767
 DATE: 4/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1041 Long W 6407
 TIME : 01:40 start stop duration 35 (min) Purpose code: 1
 LOG : 479.00 480.50 1.50 Area code : 3
 FDEPTH: 5 10 GearCond.code: 3
 BDEPTH: 34 38 Validity code:
 Towing dir: 280° Wire out: 100 m Speed: 25 kn*10
 Sorted: 9 Kg Total catch: 9.31 CATCH/HOUR: 15.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekeriensis	5.66	1767	35.46	
Anchoa lyolepis	4.63	2277	29.01	340
Loligo plei	3.09	1368	19.36	
Hemiramphus balao	1.20	15	7.52	
Trichiurus lepturus	0.86	2	5.39	
Sphyræna picudilla	0.51	36	3.20	
Engraulis eurystole	0.02	10	0.13	
Anchoa hepsetus	0.00	2		
Total	15.97		100.07	

PROJECT STATION: 768
 DATE: 4/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1044 Long W 6400
 TIME : 05:55 start stop duration 30 (min) Purpose code: 1
 LOG : 511.10 512.40 1.30 Area code : 3
 FDEPTH: 8 15 GearCond.code: 3
 BDEPTH: 27 28 Validity code:
 Towing dir: 280° Wire out: 100 m Speed: 25 kn*10
 Sorted: 64 Kg Total catch: 64.05 CATCH/HOUR: 129.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	114.00	2906	87.90	341
Sarda sarda	15.70	20	12.10	342
Total	129.70		100.00	

PROJECT STATION: 769
 DATE: 4/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1047 Long W 6421
 TIME : 08:50 start stop duration 30 (min) Purpose code: 3
 LOG : 533.50 535.10 1.60 Area code : 3
 FDEPTH: 62 56 GearCond.code: 3
 BDEPTH: 62 56 Validity code:
 Towing dir: 94° Wire out: 300 m Speed: 32 kn*10
 Sorted: 74 Kg Total catch: 173.40 CATCH/HOUR: 346.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	169.00	970	40.73	343
Haemulon steindachneri	39.60	290	11.42	346
Eucinostomus argenteus	27.00	564	7.79	345
Rhomboplites aurorubens	23.20	308	6.69	344
Pristipomoides macrophthalmus	18.20	570	5.25	
Haemulon aurolineatum	17.20	140	4.96	347
Aluturus monoceros	9.40	5	2.71	
Synodus foetens	7.20	14	2.08	
Upeneus parvus	5.60	172	1.61	
Priacanthus arenatus	5.20	46	1.50	
Fistularia petimba	4.20	32	1.21	
Pareques sp	3.80	24	1.10	
Holocentrus rufus	2.40	14	0.69	
Loligo plei	2.40	144	0.69	
Caulolatilus cyanops	1.80	4	0.52	
Cyclosetta chittendeni	1.80	4	0.52	
Dactylopterus volitans	1.80	4	0.52	
Equetus lanceolatus	1.80	10	0.52	
Scorpaena plumieri	1.60	4	0.46	
Diplectrum bivittatum	1.40	42	0.40	
Syacium microrum	1.20	10	0.35	
Serranus dewegeri	0.80	4	0.23	
Chaetodon dentatus	0.20	4	0.06	
Synodus poeyi	0.00	10		
Total	346.80		100.01	

PROJECT STATION: 770
 DATE: 4/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1055 Long W 6417
 TIME : 10:25 start stop duration 30 (min) Purpose code: 3
 LOG : 543.80 545.30 1.50 Area code : 3
 FDEPTH: 51 44 GearCond.code: 3
 BDEPTH: 51 44 Validity code:
 Towing dir: 302° Wire out: 250 m Speed: 31 kn*10
 Sorted: 56 Kg Total catch: 117.55 CATCH/HOUR: 235.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Diapterus rhombus	123.20	632	52.40	348
Synodus foetens	48.00	160	20.42	
Loligo plei	20.00	352	8.51	
Lagocephalus laevis	16.00	32	6.81	
Paralichthys tropicus	9.30	14	3.96	
Diplectrum radiale	5.80	28	2.47	
Lutjanus synagris	4.00	4	1.70	
Scorpaena plumieri	2.40	8	1.02	
Sphyræna picudilla	2.40	10	1.02	
Prionotus punctatus	1.00	20	0.43	
Loligo plei	0.80	44	0.34	
Eucinostomus gula	0.80	24	0.34	
Pristipomoides macrophthalmus	0.40	8	0.17	
Opisthonema oglinum	0.40	4	0.17	
Upeneus parvus	0.40	20	0.17	
Diplectrum bivittatum	0.20	12	0.09	
Penaeus brasiliensis	0.00	4		
Synodus poeyi	0.00	8		
Total	235.10		100.02	

PROJECT STATION: 771
 DATE: 4/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6436
 start stop duration
 TIME : 14:20 14:50 30 (min) Purpose code: 3
 LOG : 571.60 573.30 1.70 Area code : 3
 FDEPTH: 68 72 GearCond.code:
 BDEPTH: 68 72 Validity code:
 Towing dir: 330° Wire out: 350 m Speed: 33 kn*10
 Sorted: 26 Kg Total catch: 118.37 CATCH/HOUR: 236.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus purpureus	100.00	56	42.24	349
Upeneus parvus	53.50	1392	22.60	351
Pristipomoides macrophthalmus	37.50	676	15.84	350
Aluterus monoceros	12.00	10	5.07	
Epinephelus morio	5.00	6	2.11	
Haemulon boschmae	4.80	266	2.03	353
Rhomboplites aurorubens	4.74	90	2.00	352
Fistularia petimba	3.24	20	1.37	
Lutjanus vivanus	3.00	2	1.27	
Priacanthus arenatus	2.74	20	1.16	
Octopus vulgaris	2.50	6	1.06	
Caulolatilus chrysops	2.00	6	0.84	
Chilomycterus antillarum	1.50	6	0.63	
Sardinella aurita	1.50	46	0.63	
Loligo plei	1.24	36	0.52	
Ariomma bondi	1.00	10	0.42	
Trachurus lathami	0.74	16	0.31	
Eucinostomus gula	0.50	10	0.21	
Loligo pealei	0.24	10	0.10	
Total	237.74		100.41	

PROJECT STATION: 776
 DATE: 5/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1152 Long W 6315
 start stop duration
 TIME : 09:30 10:00 30 (min) Purpose code: 3
 LOG : 706.60 708.10 1.50 Area code : 3
 FDEPTH: 159 164 GearCond.code:
 BDEPTH: 159 164 Validity code:
 Towing dir: 105° Wire out: 700 m Speed: 30 kn*10
 Sorted: 26 Kg Total catch: 26.60 CATCH/HOUR: 53.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhomboplites aurorubens	14.80	18	27.82	365
Epinephelus morio	12.80	2	24.06	
Antigonia capros	8.20	78	15.41	
Serranus phoebe	4.00	60	7.52	
Priacanthus cruentatus	2.60	2	4.09	
Fistularia petimba	2.40	10	4.51	
Caulolatilus chrysops	2.20	4	4.14	
Seriola rivoliana	2.10	2	3.95	
Synodus poeyi	1.00	120	3.30	
Loligo pealei	1.00	10	1.88	
ANTHIIIDAE	0.50	22	0.94	
Synodus intermedius	0.30	20	0.56	
Scorpaena brasiliensis	0.30	2	0.56	
Ariomma bondi	0.20	20	0.38	
Decodon puellaris	0.00			
Total	53.20		100.00	

PROJECT STATION: 772
 DATE: 4/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1113 Long W 6438
 start stop duration
 TIME : 16:35 17:05 30 (min) Purpose code: 3
 LOG : 583.40 584.90 1.50 Area code : 3
 FDEPTH: 73 67 GearCond.code:
 BDEPTH: 73 67 Validity code:
 Towing dir: 150° Wire out: 400 m Speed: 27 kn*10
 Sorted: 123 Kg Total catch: 793.90 CATCH/HOUR: 1507.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	900.00	24686	61.72	355
Haemulon flavolineatum	337.60	926	21.26	356
Rhomboplites aurorubens	110.00	688	6.93	357
Haemulon boschmae	62.60	3076	3.94	
Lutjanus analis	24.00	4	1.51	354
Pristipomoides macrophthalmus	18.00	176	1.10	
Panulirus argus	14.00	4	0.88	
Haemulon striatum	12.60	112	0.79	
Trachurus lathami	7.60	150	0.48	
Pseudupeneus maculatus	6.20	12	0.39	
Loligo pealei	5.00	238	0.31	
Upeneus parvus	3.80	26	0.24	
Syacium sp.	3.20	26	0.20	
Synodus poeyi	1.20	26	0.08	
Trachinocephalus myops	1.20	26	0.08	
Saurida normani	0.80	12		
Serranus phoebe	0.00	12		
Total	1587.80		99.99	

PROJECT STATION: 777
 DATE: 5/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1151 Long W 6420
 start stop duration
 TIME : 11:03 11:33 30 (min) Purpose code: 3
 LOG : 714.90 716.00 1.10 Area code : 3
 FDEPTH: 168 244 GearCond.code:
 BDEPTH: 168 244 Validity code:
 Towing dir: 300° Wire out: 750 m Speed: 21 kn*10
 Sorted: 33 Kg Total catch: 33.80 CATCH/HOUR: 67.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Epinephelus morio	34.00	2	50.30	
Antigonia capros	22.00	220	32.54	
Saurida normani	3.90	4	5.77	
Caulolatilus chrysops	1.90	2	2.90	
Sphaeroides pachygaster	1.40	2	2.07	
ANTHIIIDAE	1.30	10	2.01	
Serranus phoebe	1.10	20	1.63	
Synodus intermedius	1.00	20	1.48	
Rhomboplites aurorubens	0.48	2	0.71	
Myripristis muriei	0.30	2	0.44	
Fistularia petimba	0.30	4	0.15	
Plesionika edwardsii	0.00	60		
Total	67.60		100.00	

PROJECT STATION: 773
 DATE: 4/ 9/88 GEAR TYPE: BT No:2 POSITION: Lat N 1111 Long W 6432
 start stop duration
 TIME : 21:35 22:05 30 (min) Purpose code: 1
 LOG : 614.90 616.30 1.40 Area code : 3
 FDEPTH: 30 30 GearCond.code:
 BDEPTH: 50 63 Validity code:
 Towing dir: 270° Wire out: 125 m Speed: 26 kn*10
 Sorted: 61 Kg Total catch: 185.25 CATCH/HOUR: 370.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	336.00	11696	90.69	358
Trachurus lathami	17.10	882	4.62	359
Scomber japonicus	16.50	486	4.45	360
Etrumeus teres	0.90	12	0.24	
Upeneus parvus	0.00	6		
Rhomboplites aurorubens	0.00	6		
Total	370.50		100.00	

PROJECT STATION: 778
 DATE: 5/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1151 Long W 6430
 start stop duration
 TIME : 12:10 13:40 90 (min) Purpose code: 3
 LOG : 729.90 731.10 1.20 Area code : 3
 FDEPTH: 24 28 GearCond.code:
 BDEPTH: 24 28 Validity code:
 Towing dir: 360° Wire out: 100 m Speed: 29 kn*10
 Sorted: 44 Kg Total catch: 112.37 CATCH/HOUR: 224.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Balistes vetula	143.00	282	63.63	366
Pomacanthus paru	25.00	30	11.12	
Acanthostracion quadricornis	14.00	46	6.23	
Sphyrna barracuda	13.50	6	6.01	
Sparisoma viride	11.74	10	5.22	
Priacanthus acronotus	11.00	16	4.89	
Seriola rivoliana	5.00	6	2.22	
Diadon holocanthus	1.00	6	0.44	
Serranus tortugarum	0.50	80	0.22	
Sepioteuthis sepioides	0.00	6		
Total	224.74		99.98	

PROJECT STATION: 774
 DATE: 5/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1105 Long W 6407
 start stop duration
 TIME : 01:55 02:25 30 (min) Purpose code: 1
 LOG : 649.10 650.50 1.40 Area code : 3
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 24 23 Validity code:
 Towing dir: 47° Wire out: 50 m Speed: 25 kn*10
 Sorted: 7 Kg Total catch: 7.44 CATCH/HOUR: 14.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyrna plicudilla	3.20	16	21.51	
Haemulon jaguana	3.10	144	20.83	361
Sardinella aurita	3.00	132	20.16	362
Pellona harroweri	2.10	96	14.11	363
Anchoa lyolepis	1.10	322	7.39	
Selene spixii	1.00	28	6.72	
Anchoa parva	0.50	188	3.76	
Opisthonema oglinum	0.50	22	3.36	
Loligo pealei	0.16	102	1.08	
Drepaneoscypha sp.	0.16		1.08	
Total	14.88		100.00	

PROJECT STATION: 779
 DATE: 5/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1141 Long W 6422
 start stop duration
 TIME : 16:00 16:30 30 (min) Purpose code: 3
 LOG : 752.20 753.40 1.20 Area code : 3
 FDEPTH: 65 58 GearCond.code:
 BDEPTH: 65 58 Validity code:
 Towing dir: 250° Wire out: 325 m Speed: 28 kn*10
 Sorted: 14 Kg Total catch: 14.80 CATCH/HOUR: 29.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dactylopterus volitans	14.80	32	50.00	
Acanthostracion quadricornis	6.00	22	20.27	
Balistes vetula	5.60	6	10.92	
Diadon holocanthus	2.00	6	6.76	
Seriola rivoliana	1.00	4	3.38	
Synodus poeyi	0.20	8	0.68	
Total	29.60		100.01	

PROJECT STATION: 775
 DATE: 5/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1120 Long W 6356
 start stop duration
 TIME : 04:55 05:25 30 (min) Purpose code: 1
 LOG : 668.00 669.30 1.30 Area code : 3
 FDEPTH: 20 28 GearCond.code:
 BDEPTH: 45 50 Validity code:
 Towing dir: 10° Wire out: 100 m Speed: 25 kn*10
 Sorted: 32 Kg Total catch: 32.90 CATCH/HOUR: 65.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Etrumeus teres	60.40	2858	91.79	364
Fish small non. comm.	2.00	960	3.04	
Loligo pealei	1.20	32	1.82	
Rhizophionodon porosus	1.00	4	1.52	
Sphyrna plicudilla	0.60	4	0.91	
Trachurus lathami	0.50	10	0.76	
Scomber japonicus	0.12	4	0.18	
Prionotus stearnsi	0.00	4		
Total	65.82		100.02	

PROJECT STATION: 780
 DATE: 5/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1140 Long W 6414
 start stop duration Purpose code: 3
 TIME : 18:00 19:00 60 (min)
 LOG : 765.30 768.10 2.60 Area code : 3
 FDEPTH: 300 312 GearCond.code: 3
 BDEPTH: 300 312 Validity code:
 Towing dir: 40° Wire out: 1150 m Speed: 30 kn*10
 Sorted: 56 Kg Total catch: 054.00 CATCH/HOUR: 054.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Steindachneria argenta	315.00	11550	36.05	
Ariomma melanum	309.00	0940	36.15	367
MACROURIDAE	93.00	4250	10.88	
Polymnia lowei	39.00	1000	4.56	
Antigonia combata	19.50	1065	2.28	
Illex coindetti	18.00	210	2.11	
Synagrops sp.	17.80	2010	2.00	
Pontinus longispinis	9.00	165	1.05	
Argentina sp.	6.65	150	0.78	
Merluccius albidus	6.00	15	0.70	
Merluccius sp.	5.25	465	0.61	
Punaocopsis serrata	5.25	700	0.61	368
Pseudichthys prometheus	4.50	45	0.53	
Zenopsis ocellata	2.10	1	0.25	
PECCEOI	1.50	300	0.18	
Etmopterus pusillus	1.50	15	0.18	
Hildebrandia sp.	1.50	30	0.18	
Cyttopsis roseus	0.75	45	0.09	
Chlorophthalmus sp.	0.00	60		
Solenocera sp.	0.00	30		
Poecilopsetta sp.	0.00	30		
Metaneoprops binghami	0.00	1		
Saurida normani	0.00	120		
MYCTOPHIDAE	0.00	270		
Rossia sp.	0.00	15		
Bregmaceros sp.	0.00	120		
Synchropus agassizii	0.00	15		
Total	055.30		100.07	

PROJECT STATION: 784
 DATE: 6/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1119 Long W 6406
 start stop duration Purpose code: 3
 TIME : 07:30 08:00 30 (min)
 LOG : 063.50 065.00 1.50 Area code : 3
 FDEPTH: 64 66 GearCond.code: 3
 BDEPTH: 64 66 Validity code:
 Towing dir: 299° Wire out: 300 m Speed: 30 kn*10
 Sorted: 27 Kg Total catch: 160.45 CATCH/HOUR: 336.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	100.00	7404	53.43	374
Sardinella aurita	50.40	820	14.96	376
Trachurus lathami	42.60	1560	12.64	375
Sphyræna plicatilla	15.00	108	4.45	
Synodus foetens	11.40	24	3.38	
Fistularia petimba	6.00	22	1.70	
Loligo plei	5.40	60	1.60	
Selar crumenophthalmus	5.40	108	1.60	
Scomber japonicus	5.40	96	1.60	
Loligo pealei	3.00	84	0.98	
Priacanthus arenatus	2.50	18	0.74	
Upeneus parvus	1.80	144	0.53	
Caulolatilus intermedius	1.80	36	0.53	
Saurida normani	1.20	12	0.36	
Rhomboplites aurorubens	1.20	36	0.36	
Ancylopsetta quadrocellata	0.80	4	0.24	
Ancylopsetta dilocata	0.60	24	0.18	
Synodus poeyi	0.60	24	0.18	
Ogcocephalus nasutus	0.60	12	0.18	
Prionotus beani	0.60	84	0.18	
Epinephelus flavolimbatus	0.40	2	0.12	
Penaeus brasiliensis	0.20	2	0.06	
Eucinostomus argenteus	0.00	12		
Etrumeus teres	0.00	24		
Total	336.90		99.99	

PROJECT STATION: 781
 DATE: 5/ 9/80 GEAR TYPE: PT No:4 POSITION: Lat N 1118 Long W 6426
 start stop duration Purpose code: 3
 TIME : 23:50 00:20 30 (min)
 LOG : 010.10 011.70 1.60 Area code : 3
 FDEPTH: 10 12 GearCond.code: 3
 BDEPTH: 77 77 Validity code:
 Towing dir: 324° Wire out: 125 m Speed: 29 kn*10
 Sorted: 65 Kg Total catch: 65.38 CATCH/HOUR: 130.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichurus lepturus	112.80	262	86.26	369
Trachurus lathami	13.30	526	10.17	370
Sardinella aurita	1.80	64	1.38	371
Engraulis suryutoli	1.00	906	0.76	
Scomber japonicus	0.50	6	0.38	
Auxis sp.	0.40	2	0.31	
Selar crumenophthalmus	0.40	2	0.31	
Etrumeus teres	0.30	12	0.23	
Neopinnula orientalis	0.20	12	0.15	
MYCTOPHIDAE	0.00	94	0.05	
JUVENILE FISHES	0.00	38		
Auxis sp.	0.00	26		
Nealotus tripes	0.00	2		
Total	130.76		100.00	

PROJECT STATION: 785
 DATE: 6/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1122 Long W 6417
 start stop duration Purpose code: 3
 TIME : 09:20 09:50 30 (min)
 LOG : 076.10 077.70 1.60 Area code : 3
 FDEPTH: 74 72 GearCond.code: 3
 BDEPTH: 74 72 Validity code:
 Towing dir: 190° Wire out: 400 m Speed: 29 kn*10
 Sorted: 48 Kg Total catch: 109.75 CATCH/HOUR: 219.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	60.80	1364	31.34	377
Pristipomoides macrophthalmus	61.60	1008	28.06	378
Upeneus parvus	32.80	634	14.94	379
Priacanthus arenatus	19.40	90	8.04	
Caulolatilus cyanops	8.60	40	3.92	
Haemulon boschmae	8.10	526	3.69	
Pagrus pagrus	5.00	4	2.28	
Trachurus lathami	4.00	140	1.82	
Dactylopterus volitans	3.60	14	1.64	
Scorpaena brasiliensis	3.60	10	1.37	
Saurida normani	2.00	26	0.91	
Fistularia petimba	0.90	10	0.41	
Syacium micurum	0.90	4	0.41	
Sphoeroides sp.	0.40	4	0.18	
Chaetodon sedentarius	0.40	4	0.18	
Prionotus beani	0.00	4		
Decapterus punctatus	0.00	4		
Diploctetrus bivittatum	0.00	4		
Synodus poeyi	0.00	4		
Total	219.50		99.99	

PROJECT STATION: 782
 DATE: 6/ 9/80 GEAR TYPE: PT No:4 POSITION: Lat N 1115 Long W 6408
 start stop duration Purpose code: 3
 TIME : 03:30 04:00 30 (min)
 LOG : 037.50 038.80 1.30 Area code : 3
 FDEPTH: 15 22 GearCond.code: 3
 BDEPTH: 52 52 Validity code:
 Towing dir: 100° Wire out: 125 m Speed: 27 kn*10
 Sorted: 5 Kg Total catch: 5.55 CATCH/HOUR: 11.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichurus lepturus	8.00	1	72.07	
Etrumeus teres	1.80	12	16.22	372
Sardinella aurita	1.00	16	9.01	
Decapterus tabl	0.30	2	2.70	
Upeneus parvus	0.00	1		
Trachurus lathami	0.00	1		
Synodus poeyi	0.00	24		
Total	11.10		100.00	

PROJECT STATION: 786
 DATE: 6/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1115 Long W 6419
 start stop duration Purpose code: 3
 TIME : 10:50 11:20 30 (min)
 LOG : 085.30 086.80 1.50 Area code : 3
 FDEPTH: 43 46 GearCond.code: 3
 BDEPTH: 43 46 Validity code:
 Towing dir: 250° Wire out: 250 m Speed: 29 kn*10
 Sorted: 57 Kg Total catch: 163.35 CATCH/HOUR: 326.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon boschmae	114.00	1064	34.09	382
Haemulon steindachneri	77.00	346	23.57	380
Mulloidichthys martinicus	33.00	10	10.10	381
Lutjanus griseus	23.80	2	7.28	
Dactylopterus volitans	16.60	60	5.08	
Lutjanus analis	16.00	2	4.90	
Balistes vetula	7.20	6	2.20	
Rhomboplites aurorubens	6.80	146	2.08	
Priacanthus arenatus	5.00	60	1.53	
Synodus foetens	4.00	16	1.47	
Pagrus pagrus	4.20	6	1.29	
Fistularia petimba	3.00	20	0.92	
Holocentrus rufus	3.00	6	0.92	
Caulolatilus cyanops	2.80	6	0.86	
Paranthias furcifer	2.60	10	0.61	
Diploctetrus bivittatum	1.80	60	0.55	
Loligo plei	1.60	30	0.49	
Syacium micurum	1.60	6	0.49	
Sphyræna plicatilla	1.50	6	0.49	
Synodus poeyi	0.60	6	0.46	
Eucinostomus argenteus	0.20	10	0.06	
Chaetodon sedentarius	0.20	6	0.06	
Prionotus punctatus	0.00	6		
Total	326.70		99.99	

PROJECT STATION: 783
 DATE: 6/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1116 Long W 6350
 start stop duration Purpose code: 3
 TIME : 06:10 06:40 30 (min)
 LOG : 055.80 057.10 1.50 Area code : 3
 FDEPTH: 34 32 GearCond.code: 3
 BDEPTH: 34 32 Validity code:
 Towing dir: 232° Wire out: 200 m Speed: 33 kn*10
 Sorted: 26 Kg Total catch: 26.25 CATCH/HOUR: 52.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon boschmae	20.80	574	39.62	373
Caranx crysos	4.60	2	0.76	
Synodus foetens	4.00	20	7.62	
Conodon nobilis	2.60	4	4.95	
Loligo plei	2.50	180	4.76	
Sardinella aurita	2.40	30	4.57	
Balistes vetula	2.00	2	3.81	
Upeneus parvus	1.80	60	3.43	
Octopus vulgaris	1.70	2	3.24	
Priacanthus arenatus	1.60	5	3.05	
Trachurus lathami	1.30	60	2.48	
Chloroscombrus chrysurus	1.20	6	2.29	
Trichurus lepturus	1.00	4	1.90	
Solene spixii	1.00	14	1.90	
Decapterus punctatus	0.60	24	1.14	
Scorpaena sp.	0.50	2	0.95	
Dactylopterus volitans	0.50	2	0.95	
Ancylopsetta quadrocellata	0.40	4	0.76	
Prionotus punctatus	0.40	2	0.76	
Synodus poeyi	0.40	32	0.76	
Pristipomoides macrophthalmus	0.40	20	0.76	
Lutjanus purpureus	0.30	2	0.57	
Diploctetrus bivittatum	0.20	12	0.38	
Scomber japonicus	0.10	2	0.19	
Eucinostomus argenteus	0.10	4	0.19	
Serranus flaviventris	0.10	2	0.19	
Total	52.50		99.98	

PROJECT STATION: 787
 DATE: 6/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1112 Long W 6426
 start stop duration Purpose code: 3
 TIME : 12:00 12:30 30 (min)
 LOG : 091.70 093.20 1.50 Area code : 3
 FDEPTH: 56 56 GearCond.code: 3
 BDEPTH: 56 56 Validity code:
 Towing dir: 240° Wire out: 300 m Speed: 32 kn*10
 Sorted: 31 Kg Total catch: 339.15 CATCH/HOUR: 678.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	428.00	14716	62.00	385
Etrumeus teres	66.00	3402	9.73	386
Trachurus lathami	64.90	4232	6.81	387
Haemulon boschmae	46.20	4528	6.49	388
Pristipomoides macrophthalmus	44.00	2244	2.65	384
Rhomboplites aurorubens	18.00	42	0.86	383
Priacanthus arenatus	5.80	10	0.65	
Scomber japonicus	4.40	44	0.32	
Prionotus beani	2.20	22	0.09	
Epinephelus morio	0.60	2	0.03	
Penaeus brasiliensis	0.20	2		
Total	678.30		100.00	

PROJECT STATION: 788
 DATE: 6/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1102
 start stop duration Long W 6445
 TIME : 15:00 15:30 30 (min) Purpose code: 3
 LOG : 914.70 916.10 1.40 Area code : 3
 FDEPTH: 97 96 GearCond.code:
 BDEPTH: 97 96 Validity code:
 Towing dir: 325° Wire out: 500 m Speed: 29 kn*10

Sorted: 51 Kg Total catch: 359.10 CATCH/HOUR: 718.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Pristipomoides macrophthalms	370.00	52.63	390
Upeneus parvus	134.40	18.71	392
Rhomboplites aurorubens	126.00	17.54	391
Priacanthus arotatus	28.00	3.90	394
Trachurus lathami	22.40	3.12	393
Caulolatilus chrysops	11.20	1.56	
Caulolatilus cyanops	9.80	1.36	
Dactylopterus volitans	4.20	0.58	
Pareques sp	1.40	0.19	
Scorpaena agassizi	1.40	0.19	
Halichoeres bathyphilus	1.40	0.19	
Total	718.20	99.97	

PROJECT STATION: 789
 DATE: 6/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1107
 start stop duration Long W 6451
 TIME : 16:30 16:45 15 (min) Purpose code: 3
 LOG : 922.10 922.70 0.60 Area code : 3
 FDEPTH: 112 161 GearCond.code:
 BDEPTH: 112 161 Validity code:
 Towing dir: 325° Wire out: 600 m Speed: 24 kn*10

Sorted: 10 Kg Total catch: 10.40 CATCH/HOUR: 41.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Rhomboplites aurorubens	22.00	56	395
Pristipomoides macrophthalms	7.80	56	
Serranus phoebe	4.00	40	
Loligo plei	2.60	216	
Chaetodon guyanensis	1.00	12	
Chromis sp.	0.80	12	
Prionotus beani	0.80	16	
Upeneus parvus	0.80	12	
ANPHILIDAE	0.80	164	
Trachinocephalus myops	0.60	20	
Scorpaena agassizi	0.40	4	
Ariomma bondi	0.00	4	
Illex coindetta	0.00	12	
Total	41.60	99.98	

PROJECT STATION: 790
 DATE: 6/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1111
 start stop duration Long W 6500
 TIME : 19:50 20:50 60 (min) Purpose code: 3
 LOG : 948.50 951.10 2.60 Area code : 3
 FDEPTH: 396 421 GearCond.code:
 BDEPTH: 396 421 Validity code:
 Towing dir: 250° Wire out: 1250 m Speed: 22 kn*10

Sorted: 122 Kg Total catch: 122.50 CATCH/HOUR: 122.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Miscellaneous fish	69.00	56.33	
Illex coindetta	23.00	18.78	396
Plecticus robustus	13.90	316	397
Bathynomus giganteus	5.50	14	
Aristaeomorpha sp	3.50	118	398
Squatina dumeril	2.25	1	
Plesionika edwardsii	1.60	119	
RAJIDAE	0.80	10	
Hydrolagus alberti	0.80	1	
Torpedo nobiliana	0.50	1	
POLYCHELIDAE	0.30	20	
Peristodion miniatum	0.15	12	
Argentina sp.	0.15	1	
Beryx docadactylus	0.10	1	
Cyttopsius roseus	0.10	7	
Hollardia hollardia	0.05	1	
LOBNIOO	0.00	1	
CRANCONIDAE	0.00	1	
PANDALIDAE	0.00	5	
Hoplostethus sp	0.00	5	
Xenolepidichthys dalgleishi	0.00	1	
Zenion hololepis	0.00	3	
Total	121.70	99.35	

PROJECT STATION: 791
 DATE: 6/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1107
 start stop duration Long W 6456
 TIME : 22:15 22:45 30 (min) Purpose code: 3
 LOG : 959.50 961.20 1.70 Area code : 3
 FDEPTH: 102 99 GearCond.code:
 BDEPTH: 102 99 Validity code:
 Towing dir: 169° Wire out: 500 m Speed: 32 kn*10

Sorted: 17 Kg Total catch: 39.30 CATCH/HOUR: 70.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Ariomma melanum	19.20	200	
Pristipomoides macrophthalms	10.00	404	399
Mustelus canis	10.00	10	
Synodus intermedius	9.80	108	
Rhomboplites aurorubens	4.80	20	
Upeneus parvus	2.40	172	
Scorpaena sp.	2.20	60	
Chilomycterus antillarum	2.00	24	
Scomber japonicus	1.60	20	
Prionotus beani	1.40	40	
APOGONIDAE	1.40	204	
Haemulon tripes	1.20	20	
Lepophidium sp	0.80	64	
Raja corvignoni	0.80	4	
Lepophidium pheromystax	0.60	8	
Trachinocephalus myops	0.60	8	
Loligo plei	0.40	8	
Penaeus brasiliensis	0.40	16	
Torpedo sp	0.20	8	
Ancylorsetta dillecta	0.20	4	
Solenocera sp	0.00	8	
Plesionika edwardsii	0.00	24	
Thalassophryne maculosa	0.00	24	
Haemulon boschmae	0.00	12	
Total	70.60	100.00	

PROJECT STATION: 792
 DATE: 6/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1100
 start stop duration Long W 6453
 TIME : 23:45 00:15 30 (min) Purpose code: 3
 LOG : 967.90 969.70 1.80 Area code : 3
 FDEPTH: 120 135 GearCond.code:
 BDEPTH: 120 135 Validity code:
 Towing dir: 100° Wire out: 600 m Speed: 33 kn*10

Sorted: 54 Kg Total catch: 164.13 CATCH/HOUR: 328.26

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trachurus lathami	126.00	630	401
Pristipomoides macrophthalms	98.40	1034	400
Scomber japonicus	21.00	216	402
Upeneus parvus	13.50	258	403
Calamus penna	10.80	18	
Epinephelus morio	10.20	6	
Scorpaena agassizi	9.00	192	
Rhomboplites aurorubens	9.00	12	
Pareques sp	8.10	84	
Synodus intermedius	5.10	40	
Sardinella aurita	5.10	72	
Sphoeroides sp	1.80	12	
Lepophidium sp	1.50	102	
Haemulon aurolineatum	1.50	6	
Mustelus higmani	1.50	6	
Priacanthus arenatus	1.50	6	
Fistularia patibula	1.20	6	
Decapterus tabl	1.20	12	
Solenocera sp	0.90	396	
Plesionika edwardsii	0.60	366	
Penaeus brasiliensis	0.24	6	
Prionotus beani	0.12	6	
Paralichthys tropicus	0.00	30	
Loligo plei	0.00	6	
Serranus phoebe	0.00	6	
Exocoetus volitans	0.00	6	
Total	320.26	100.01	

PROJECT STATION: 793
 DATE: 7/ 9/88 GEAR TYPE: FT No:2 POSITION:Lat N 1057
 start stop duration Long W 6454
 TIME : 01:10 01:40 30 (min) Purpose code: 1
 LOG : 973.80 975.20 1.40 Area code : 3
 FDEPTH: 50 70 GearCond.code:
 BDEPTH: 122 145 Validity code:
 Towing dir: 60° Wire out: 175 m Speed: 20 kn*10

Sorted: 27 Kg Total catch: 27.50 CATCH/HOUR: 55.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	42.20	680	404
Scomber japonicus	7.40	96	405
Trachurus lathami	3.00	98	406
Axius sp	1.20	14	
Pristipomoides macrophthalms	0.80	4	
Selar crumenophthalmus	0.40	2	
Total	55.00	99.99	

PROJECT STATION: 794
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1057
 start stop duration Long W 6503
 TIME : 03:40 04:10 30 (min) Purpose code: 3
 LOG : 990.50 992.20 1.70 Area code : 3
 FDEPTH: 72 74 GearCond.code:
 BDEPTH: 72 74 Validity code:
 Towing dir: 344° Wire out: 400 m Speed: 29 kn*10

Sorted: 26 Kg Total catch: 134.45 CATCH/HOUR: 268.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Rhomboplites aurorubens	104.00	1170	408
Haemulon boschmae	72.50	4256	407
Haemulon aurolineatum	21.00	300	
Synodus intermedius	12.00	120	
Priacanthus arotatus	12.00	210	409
Upeneus parvus	10.00	230	
Sphoeroides sp	6.00	60	
Scorpaena agassizi	5.00	100	
Trachurus lathami	4.50	90	
Apogon sp	3.00	370	
Decapterus punctatus	3.00	60	
Prionotus beani	3.00	30	
Pristipomoides macrophthalms	2.50	20	
Holocentrus adscensionis	2.00	40	
Thalassophryne maculosa	1.50	10	
Prionotus roseus	1.50	20	
Chilomycterus antillarum	1.00	20	
Dactylopterus volitans	1.00	12	
Lepophidium sp	0.80	40	
Scomber japonicus	0.80	10	
Trachinocephalus myops	0.80	12	
Paralichthys tropicus	0.60	10	
Symphodus diomedianus	0.40	10	
Haemulon atriatum	0.00	10	
Haemulon macrostomum	0.00	10	
Lepophidium pheromystax	0.00	10	
Exocoetus volitans	0.00	10	
Syacium micrurum	0.00	10	
Total	268.96	100.01	

PROJECT STATION: 795
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6505
 start stop duration Purpose code: 3
 TIME : 05:00 05:30 30 (min) Area code : 3
 LOG : 997.70 999.20 1.50 GearCond.code:
 FDEPTH: 74 81 Validity code:
 BDEPTH: 74 81
 Towing dir: 340° Wire out: 400 m Speed: 31 kn*10

Sorted: 20 Kg Total catch: 56.00 CATCH/HOUR: 112.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Haemulon boschmae	52.00	2932	46.43	410
Upeneus parvus	20.00	372	10.57	411
Synodus intermedius	15.40	204	13.75	
Scorpaena brasiliensis	4.00	172	3.57	
Sardinella aurita	2.00	40	2.50	
Trachinocephalus myops	2.60	36	2.32	
Decapterus punctatus	2.00	36	1.79	
Dactyloperus volitans	2.00	16	1.79	
Bothus lunatus	2.00	64	1.79	
Chilomycterus antillarum	2.00	16	1.79	
Prionotus boani	1.80	32	1.61	
Priacanthus arenatus	1.40	44	1.25	
Haemulon aurolineatum	0.60	8	0.54	
Rhomboplites aurorubens	0.40	4	0.36	
Penaes brasiliensis	0.40	16	0.36	
Loligo plei	0.40	8	0.36	
Bellator ribeiroi	0.40	24	0.36	
Thalassophryne maculosa	0.40	28	0.36	
Rhildebrandia sp.	0.20	8	0.18	
Scomber japonicus	0.20	4	0.18	
Holocentrus adscensionis	0.20	12	0.18	
Sphoeroides testudineus	0.00	4		
Sphoeroides dorsalis	0.00	8		
Ogcocephalus nasutus	0.00	4		
Diplobatys guamachensis	0.00	4		
Total		112.00	100.04	

PROJECT STATION: 790
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1102 Long W 6515
 start stop duration Purpose code: 3
 TIME : 11:30 12:00 30 (min) Area code : 3
 LOG : 1035.90 1037.60 1.70 GearCond.code:
 FDEPTH: 25 29 Validity code:
 BDEPTH: 25 29
 Towing dir: 270° Wire out: 200 m Speed: 31 kn*10

Sorted: 49 Kg Total catch: 473.77 CATCH/HOUR: 947.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Balistes vetula	273.00	144	28.81	
Calamus pennatula	169.00	312	17.84	
Lachnolaimus maximus	104.00	50	10.90	
TURTLE	80.00	2	8.44	
Raja sp	60.00	2	6.33	
Acanthurus chirurgus	55.90	104	5.90	
Sparisoma chrysopetrum	37.70	52	3.98	
Pomacanthus paru	31.20	26	3.29	
Sparisoma rubripinne	27.30	14	2.88	
Myxeroperca venenosa	21.40	4	2.26	
Haemulon album	20.00	4	2.11	
Acanthurus coeruleus	14.94	40	1.58	
Ocyurus chrysurus	13.00	14	1.37	
Rhinosomus triquetor	13.00	40	1.37	
Lutjanus analis	10.40	8	1.10	
Lactophrys trigonus	6.50	14	0.69	
Epinephelus guttatus	6.00	6	0.63	
Sparisoma aurofrenatum	4.20	4	0.44	
Total		947.54	100.00	

PROJECT STATION: 799
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6524
 start stop duration Purpose code: 3
 TIME : 13:30 14:00 30 (min) Area code : 3
 LOG : 1048.60 1050.00 1.40 GearCond.code:
 FDEPTH: 76 90 Validity code:
 BDEPTH: 76 90
 Towing dir: 342° Wire out: 450 m Speed: 30 kn*10

Sorted: 42 Kg Total catch: 592.20 CATCH/HOUR: 1184.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	781.20	11328	65.96	420
Rhomboplites aurorubens	162.40	4088	13.71	422
Scomber japonicus	140.00	1344	11.82	421
Haemulon striatum	44.80	468	3.78	423
Decapterus punctatus	25.20	276	2.13	
Saurida normani	22.40	26	1.69	
Decapterus macarellus	6.40	140	0.71	
Priacanthus arenatus	0.00	28		
Decapterus tabl	0.00	28		
Total		1184.40	100.00	

PROJECT STATION: 796
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1114 Long W 6513
 start stop duration Purpose code: 3
 TIME : 07:25 08:25 60 (min) Area code : 3
 LOG : 1015.00 1017.20 2.20 GearCond.code:
 FDEPTH: 501 522 Validity code:
 BDEPTH: 501 522
 Towing dir: 195° Wire out: 1550 m Speed: 24 kn*10

Sorted: 44 Kg Total catch: 98.80 CATCH/HOUR: 98.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Miscellaneous fish	25.50		25.81	
Clypeocentrus giganteus	23.60	80	23.89	
Clypeocentrus sp	11.30		11.44	
Pholidoteuthis adami	9.00	24	9.92	
Illex coindotti	9.40	48	9.51	414
Aristaeomorpha foliacea	5.00	188	5.06	413
Centropristis granulosa	4.90	5	4.96	
Morluccioides albidus	3.80	3	3.85	
LOBN100	2.00	80	2.02	
Plecticus robustus	1.60	41	1.62	412
POLYCHELIDAE	1.10	64	1.11	
Penaopsis serrata	0.50	50	0.51	
Ornithoteuthis antillarum	0.30	5	0.30	
GALATHEIDAE	0.00	2		
Bathypterois quadrifidus	0.00	2		
Dolichoteuthis fuliginosa	0.00	2		
Stemonosudis rothschildi	0.00	4		
Total		98.80	100.00	

PROJECT STATION: 809
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1117 Long W 6530
 start stop duration Purpose code: 3
 TIME : 15:30 16:30 60 (min) Area code : 3
 LOG : 1061.00 1063.90 2.90 GearCond.code:
 FDEPTH: 64 67 Validity code:
 BDEPTH: 64 67
 Towing dir: 200° Wire out: 1850 m Speed: 27 kn*10

Sorted: 28 Kg Total catch: 149.50 CATCH/HOUR: 149.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Xenodermichthys sp	47.50	1900	31.77	
Taraxilla sp	27.50	530	18.39	
CORONOTATIDAE	15.00	225	10.03	
Pholidoteuthis adami	9.00	50	6.02	
Bathynomus giganteus	9.00	50	6.02	
Synagrops bellus	7.50	90	5.02	
Plesiopomus edwardsianus	7.50	165	5.02	424
Centroscymnus owstoni	6.00	1	4.01	
Nezumia sulfa	5.00	65	3.34	
Etmopterus sp	5.00	30	3.34	
Benthodesmus tenuis	2.50	20	1.67	
HCAL00	2.00	40	1.34	
MORIDAE	1.00	35	0.67	
Acanthocaris caeca	1.00	5	0.67	
ANACANTHOBATIDAE	0.75	25	0.50	
HACROURIDAE	0.75	25	0.50	
Laemonema sp	0.50	10	0.33	
Bathypterois viridensis	0.50	5	0.33	
Nezumia cyrano	0.50	5	0.33	
Nematocarcinus rotundus	0.25	150	0.17	
Uathygadus melanobranchus	0.25	15	0.17	
Melanostomias sp.	0.25	5	0.17	
SCOMBROLABRACIDAE	0.00	5		
CHIASMODONTIDAE	0.00	5		
POLYCHELIDAE	0.00	25		
LOBN100	0.00	15		
Reolotus tripes	0.00	10		
Total		149.50	99.98	

PROJECT STATION: 797
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106 Long W 6516
 start stop duration Purpose code: 3
 TIME : 10:20 10:50 30 (min) Area code : 3
 LOG : 1030.30 1031.70 1.40 GearCond.code:
 FDEPTH: 69 67 Validity code:
 BDEPTH: 69 67
 Towing dir: 156° Wire out: 350 m Speed: 29 kn*10

Sorted: 55 Kg Total catch: 223.14 CATCH/HOUR: 446.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	294.70	5694	66.03	415
Haemulon striatum	30.10	582	6.74	417
Rhomboplites aurorubens	25.54	742	5.72	418
Myxeroperca cidi	24.00	2	5.38	
Decapterus punctatus	16.00	476	3.76	416
Lachnolaimus maximus	9.00	4	2.02	
Mustelus canis	8.00	6	1.79	
Haemulon boschmae	7.00	260	1.57	
Calamus pennatula	6.40	8	1.43	
Scomber japonicus	3.50	6	0.78	
Synodus intermedius	3.50	28	0.78	
Aluterus monoceros	3.50	14	0.78	
Dasyatis sp	2.00	6	0.63	
Haemulon melanurum	2.10	14	0.47	
Aluterus schoepfi	2.10	6	0.47	
Chilomycterus antillarum	2.10	14	0.47	
Pagrus pagrus	2.00	2	0.45	
Lutjanus vivanus	1.70	6	0.39	
Loligo plei	1.40	42	0.31	
Sphoeroides testudineus	0.00	6		
Total		446.28	99.97	

PROJECT STATION: 801
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1102 Long W 6537
 TIME : 18:55 start stop duration Purpose code: 3
 LOG : 1003.70 1003.10 1.40 Area code : 3
 FDEPTH: 72 66 GearCond. code: 3
 DDEPTH: 72 66 Validity code:
 Towing dir: 167° Wire out: 350 m Speed: 33 kn*10
 Sorted: 29 Kg Total catch: 210.25 CATCH/HOUR: 420.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Haemulon striatum	112.60	3772	26.78
Seriola rivoliana	89.40	0	21.26
Haemulon boehmiae	51.40	3908	12.22
Haemulon album	28.00	4	6.85
Synodus intermedius	28.00	406	6.85
Lutjanus analis	27.00	4	6.42
Holocentrus rufus	13.60	54	3.23
Caullolatilus cyanops	12.60	46	3.00
Haemulon melanurum	12.20	126	2.90
Mustelus canis	6.60	6	2.05
Adioryx bullisi	7.20	234	1.71
Astrapogon alutus	6.80	702	1.62
Rhomboplites aurorubens	4.50	82	1.07
Priacanthus arenatus	4.50	72	1.07
Sardinella aurita	3.60	54	0.86
Cyclosetta chittendeni	1.80	18	0.43
Trachinocephalus myops	1.40	18	0.33
Lutjanus vivanus	1.40	10	0.33
Dactylopterus volitans	1.40	10	0.33
Fistularia petimba	0.90	18	0.21
Serranus phoebe	0.90	172	0.21
Syacium micurum	0.90	10	0.21
Penaeus brasiliensis	0.40	10	0.10
Synodus poeyi	0.40	100	0.10
Scomber japonicus	0.40	10	0.10
Scorpaena sp.	0.00	20	
Ophidion holbrookii	0.00	10	
Apogon sp	0.00	90	
Porichthys pauciradiatus	0.00	10	
Hildebrandia sp.	0.00	10	
Citharichthys cornutus	0.00	64	
Bothus lunatus	0.00	28	
Total	421.50	100.24	

PROJECT STATION: 802
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1101 Long W 6541
 TIME : 21:25 start stop duration Purpose code: 3
 LOG : 1099.30 1099.50 0.20 Area code : 3
 FDEPTH: 117 110 GearCond. code: 9
 DDEPTH: 117 110 Validity code: 9
 Towing dir: 105° Wire out: 600 m Speed: 30 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:
 SPECIES CATCH/HOUR % OF TOT. C SAMP. NO.
 NO CATCH weight numbers
 Total 0.00

PROJECT STATION: 803
 DATE: 7/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1102 Long W 6545
 TIME : 22:35 start stop duration Purpose code: 3
 LOG : 1106.30 1108.00 1.70 Area code : 3
 FDEPTH: 67 72 GearCond. code: 3
 DDEPTH: 67 72 Validity code:
 Towing dir: 349° Wire out: 350 m Speed: 30 kn*10
 Sorted: 50 Kg Total catch: 101.50 CATCH/HOUR: 203.00
 SPECIES CATCH/HOUR % OF TOT. C SAMP. NO.
 Haemulon striatum 62.00 786 30.94
 Holocentrus rufus 33.40 232 16.45
 Priacanthus arenatus 22.00 340 11.23 428
 Haemulon melanurum 13.60 66 6.70
 Rhomboplites aurorubens 10.40 144 5.71 429
 Synodus intermedius 10.40 144 5.12
 Serranus phoebe 8.00 280 3.94
 Dactylopterus volitans 5.60 24 2.76
 Scorpaena sp. 5.20 72 2.56
 Haemulon boehmiae 4.00 231 2.36 430
 Octopus vulgaris 4.00 12 1.97
 Adioryx bullisi 1.80 100 0.89
 Pagrus pagrus 1.80 4 0.89
 Neolotus tripes 1.60 20 0.78
 MYCTOPHIDAE 1.20 610 0.59
 Loligo plei 1.20 12 0.59
 Acanthostracion quadricornis 1.20 10 0.59
 Selar crumenophthalmus 1.00 12 0.49
 Penaeus brasiliensis 0.00 12 0.39
 Equetus lanceolatus 0.00 4 0.39
 Trachinocephalus myops 0.00 0 0.39
 Aluterus schoepfi 0.00 4 0.39
 Hildebrandia sp. 0.00 36 0.39
 Cyananthorax ocellatus 0.00 12 0.39
 Sphaeroides dorsalis 0.00 24 0.39
 Scomber japonicus 0.00 16 0.30
 Thalassophryne maculosa 0.00 60 0.30
 Chilomycterus antillarum 0.40 4 0.20
 Syacium sp. 0.40 4 0.20
 Trachurus lathami 0.40 8 0.20
 Upeneus parvus 0.40 8 0.20
 Apogon sp 0.40 112 0.20
 Narcine brasiliensis 0.40 8 0.20
 Chaetodon sedentarius 0.40 8 0.20
 Fistularia petimba 0.40 4 0.20
 Ophidion holbrookii 0.20 4 0.10
 Bothus lunatus 0.20 4 0.10
 Sphaeroides testudineus 0.20 4 0.10
 Total 203.00 100.00

PROJECT STATION: 804
 DATE: 9/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1039 Long W 6641
 TIME : 12:15 start stop duration Purpose code: 3
 LOG : 1207.50 1209.30 1.80 Area code : 3
 FDEPTH: 51 52 GearCond. code: 3
 DDEPTH: 51 52 Validity code:
 Towing dir: 71° Wire out: 250 m Speed: 32 kn*10
 Sorted: 48 Kg Total catch: 48.74 CATCH/HOUR: 97.48

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	68.00	14	69.76
Calamus pinnatus	7.70	10	7.90
Fistularia petimba	7.40	28	7.59
Rhomboplites aurorubens	2.80	60	2.87
Calamus penna	2.40	50	2.46
Aluterus heudelotii	1.60	4	1.64
Balistes capricornis	1.38	4	1.42
Pagrus pagrus	1.10	2	1.13
Dactylopterus volitans	1.10	2	1.13
Priacanthus arenatus	0.96	8	0.98
Diplacrum bivittatum	0.60	14	0.62
Haemulon boehmiae	0.60	14	0.62
Lutjanus purpurus	0.30	6	0.31
Lutjanus vivanus	0.30	6	0.31
Upeneus parvus	0.20	8	0.21
Synodus foetens	0.00	2	
Total	97.48	100.02	

PROJECT STATION: 805
 DATE: 9/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1039 Long W 6630
 TIME : 14:00 start stop duration Purpose code: 3
 LOG : 1217.00 1218.20 1.20 Area code : 3
 FDEPTH: 80 91 GearCond. code: 3
 DDEPTH: 80 91 Validity code:
 Towing dir: 60° Wire out: 400 m Speed: 29 kn*10
 Sorted: 23 Kg Total catch: 23.15 CATCH/HOUR: 46.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Priacanthus arenatus	9.00	26	19.44
Pagrus pagrus	8.40	12	10.14
Fistularia petimba	7.60	22	16.41
Upeneus parvus	5.40	138	11.66
Seriola rivoliana	3.80	4	8.21
Alcoctis ciliaris	3.60	4	7.78
Lutjanus purpurus	3.60	18	7.78
Caranx crysos	2.00	12	4.32
Euclinostomus gula	0.80	16	1.73
Paralichthys tropicus	0.70	2	1.51
Balistes capricornis	0.60	2	1.30
Trachurus lathami	0.30	8	0.65
Saurida namata	0.20	2	0.43
Pristipomoides macrophthalmus	0.20	4	0.43
Rhomboplites aurorubens	0.10	2	0.22
Synodus foetens	0.00	6	
Sardinella aurita	0.00	2	
Total	46.30	100.01	

PROJECT STATION: 806
 DATE: 9/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1041 Long W 6615
 TIME : 16:25 start stop duration Purpose code: 3
 LOG : 1231.00 1232.30 1.30 Area code : 3
 FDEPTH: 94 90 GearCond. code: 3
 DDEPTH: 94 90 Validity code:
 Towing dir: 90° Wire out: 500 m Speed: 23 kn*10
 Sorted: 27 Kg Total catch: 116.95 CATCH/HOUR: 233.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Euclinostomus argenteus	45.00	1026	19.24
Lutjanus griseus	42.00	2	17.96
Lutjanus analis	40.00	2	17.10
Selar crumenophthalmus	27.50	112	11.76
Upeneus parvus	25.00	1050	10.69
Mustelus canis	20.00	894	8.55
Pristipomoides macrophthalmus	12.00	4	5.13
Loligo plei	5.50	2	2.35
Pagrus pagrus	3.00	12	2.14
Dactylopterus volitans	2.00	6	0.86
Scomber japonicus	2.00	20	0.86
Aluterus monoceros	1.80	6	0.77
Fistularia petimba	1.80	10	0.77
Syacium papillosum	0.80	6	0.34
Decapterus punctatus	0.50	10	0.21
Ariomma bondi	0.00	6	
Rhomboplites aurorubens	0.00	20	
Total	233.90	100.01	

PROJECT STATION: 807
 DATE: 9/ 9/88 GEAR TYPE: BT No:1 POSITION:Lat N 1042 Long W 6605
 TIME : 18:45 start stop duration Purpose code: 3
 LOG : 1246.70 1248.40 1.70 Area code : 3
 FDEPTH: 67 69 GearCond. code: 3
 DDEPTH: 67 69 Validity code:
 Towing dir: 318° Wire out: 350 m Speed: 39 kn*10
 Sorted: 24 Kg Total catch: 67.90 CATCH/HOUR: 135.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	36.60	10	26.95
Haemulon boehmiae	29.60	140	21.80
Haemulon steindachneri	22.40	100	16.49
Rhomboplites aurorubens	10.00	92	7.36
Daytia americana	8.00	4	5.89
Pristipomoides macrophthalmus	6.00	128	4.42
Fistularia petimba	5.40	28	3.90
Haemulon striatum	4.80	108	3.53
Astrapogon alutus	2.80	224	2.06
Pagrus pagrus	2.40	8	1.77
Dactylopterus volitans	2.00	4	1.47
Euclinostomus argenteus	1.80	12	0.74
Adioryx bullisi	0.80	20	0.59
Trachinocephalus myops	0.60	40	0.44
Upeneus parvus	0.60	128	0.44
Syacium papillosum	0.40	12	0.29
Priacanthus arenatus	0.40	4	0.29
Synodus intermedius	0.40	4	0.29
Serranus phoebe	0.40	20	0.29
Lutjanus vivanus	0.40	8	0.29
Synodus poeyi	0.20	8	0.15
Bothus lunatus	0.00	8	
Sphaeroides testudineus	0.00	4	
Sphaeroides dorsalis	0.00	4	
Total	135.80	99.97	

PROJECT STATION: 800
 DATE: 9/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1051 Long W 6614
 start stop duration Purpose code: 3
 TIME : 20:55 21:55 60 (min) Area code : 3
 LOG : 1262.00 1265.60 3.60 GearCond.code: 3
 FDEPTH: 222 218 Validity code:
 BDEPTH: 222 218
 Towing dir: 270° Wire out: 1050 m Speed: 33 kn*10

Sorted: 46 Kg Total catch: 167.95 CATCH/HOUR: 167.95

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	64.40	403	38.34	444
Pontinus longispinis	31.85	621	18.96	
Prionotus beani	19.95	308	11.80	
Trachurus lathami	14.00	66	8.34	
Solenocera sp	5.25	399	3.13	445
Lepophidium profundorum	5.25	70	3.13	
NORIDAE	4.37	1103	2.60	
S H R I M P S	2.80	1190	1.67	
Synagrops bellus	2.45	329	1.46	
Pikea mexicana	2.45	144	1.46	
Mustelus nigmani	2.30	1	1.37	
Loligo pealei	2.10	53	1.25	
Epinephelus flavovimbatus	1.90	1	1.13	
Holanthias martinicensis	1.75	35	1.04	
Bombrops sp	1.22	46	0.73	
Peristedion miniatum	0.87	21	0.52	
Peristedion sp	0.87	60	0.52	
Hoplunnis sp	0.70	126	0.42	
Merluccius albidus	0.52	70	0.31	
Rhomboplites aurorubens	0.52	4	0.21	
Synchiropus agassizii	0.35	32	0.21	
Illex coindetii	0.35	4	0.21	
Zenopsis ocellata	0.35	7	0.21	
Monolena sp	0.35	77	0.21	
Hildebrandia sp.	0.35	7	0.21	
Prionotus bearnsi	0.17	14	0.10	
Nealotus tripes	0.17	4	0.10	
Lonchopisthus sp	0.17	26	0.16	
Zalilutes mcgintyi	0.17	54	0.10	
BOTIIDAE	0.00	7		
CYNOGLOSSIDAE	0.00	4		
Polymixia lowei	0.00	4		
Total	167.95		100.02	

PROJECT STATION: 811
 DATE: 10/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1110 Long W 6634
 start stop duration Purpose code: 3
 TIME : 10:15 11:15 60 (min) Area code : 3
 LOG : 1342.90 1345.30 2.40 GearCond.code: 3
 FDEPTH: 592 502 Validity code:
 BDEPTH: 592 502
 Towing dir: 76° Wire out: 1500 m Speed: 26 kn*10

Sorted: 29 Kg Total catch: 87.75 CATCH/HOUR: 87.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Synagrops bellus	19.50	357	22.22	
Bathynomus giganteus	10.00	45	20.51	
Bairamattus americanus	7.00	15	8.09	
Laemonema sp	5.40	48	6.15	
CYANODONTIDAE	4.50	264	5.13	
MYCTOPHIDAE	3.90	321	4.44	
Ornithotautis antillarum	3.00	63	3.42	
Acanthocharis caeca	2.25	12	2.56	
Plecticus robustus	1.80	45	2.05	453
Benthodesmus tenuis	1.80	81	2.05	
Anthypocrotus quadrifilis	1.00	126	2.05	
Plesiopneustes edwardsianus	1.50	24	1.71	452
BATHYCLUPEIDAE	1.50	6	1.71	
Nematocarcinus rotundus	1.50	6	1.71	
Yareella blackfordi	1.50	27	1.71	
Lepidopus caudatus	1.50	3	1.71	
Steindachneria argenta	1.20	36	1.37	
Aristaeomorpha sp	1.20	42	1.37	451
Brama caribbaea	1.20	36	1.37	
CERIALOPODA	0.90	9	1.03	
Squaliolus laticaudus	0.90	9	1.03	
Glyphocrangon sp	0.90	111	1.03	
Xenodermichthys socialis	0.90	36	1.03	
Argyropelecus aculeatus	0.75	78	0.85	
Aristeus sp	0.45	15	0.51	
Arionna melanum	0.30	3	0.34	
Ceolorinchus caribbaeus	0.30	15	0.34	
Hildebrandia sp.	0.30	9	0.34	
POLYCHELIDAE	0.30	9	0.34	
Setarches guentheri	0.30	3	0.34	
GALATHEIDAE	0.30	24	0.34	
Chaunax pictus	0.30	3	0.34	
Total	87.75		99.99	

PROJECT STATION: 809
 DATE: 10/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1059 Long W 6620
 start stop duration Purpose code: 3
 TIME : 00:05 01:00 60 (min) Area code : 3
 LOG : 1276.00 1280.10 3.30 GearCond.code: 3
 FDEPTH: 303 305 Validity code:
 BDEPTH: 303 305
 Towing dir: 270° Wire out: 900 m Speed: 32 kn*10

Sorted: 27 Kg Total catch: 82.25 CATCH/HOUR: 82.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Polymixia lowei	24.00	672	29.10	
Pontinus longispinis	15.00	100	18.24	
Ceolorinchus caribbaeus	10.00	414	13.13	
Steindachneria argenta	7.80	312	9.48	
Illex coindetii	3.90	30	4.74	446
Nealotus tripes	3.00	33	3.65	
Merluccius albidus	2.70	9	3.28	
Argentina sp.	2.10	84	2.55	
Epigonus sp	1.80	288	2.19	
S H R I M P S	1.50	366	1.82	
Holanthias martinicensis	1.50	33	1.82	
Bombrops sp	1.50	33	1.82	
Lepophidium pheromystax	1.50	195	1.82	
Arionna melanum	0.90	12	1.09	
Solenocera sp	0.80	31	0.97	447
Lepophidium profundorum	0.60	6	0.73	
Synchiropus agassizii	0.60	10	0.73	
Cyttopsid roseus	0.45	6	0.55	
Peristedion miniatum	0.45	3	0.55	
Peristedion sp	0.45	15	0.55	
Hildebrandia sp.	0.30	24	0.36	
Monolena sp	0.30	39	0.36	
Prionotus beani	0.30	3	0.36	
Hoplunnis sp	0.00	6		
CRANGONIDAE	0.00	12		
Total	82.25		99.97	

PROJECT STATION: 812
 DATE: 10/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1102 Long W 6639
 start stop duration Purpose code: 3
 TIME : 13:20 14:20 60 (min) Area code : 3
 LOG : 1360.60 1363.10 2.50 GearCond.code: 3
 FDEPTH: 328 343 Validity code:
 BDEPTH: 328 343
 Towing dir: 80° Wire out: 1150 m Speed: 24 kn*10

Sorted: 58 Kg Total catch: 896.95 CATCH/HOUR: 896.95

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Arionna bondi	495.00	12230	55.19	454
SCIAENIDAE	190.00	420	22.07	455
Helicolenus dactylopterus	102.00	90	11.37	
Pronotogrammus eos	37.50	15	4.18	
Epinephelus morio	14.90	1	1.66	
Zenopsis ocellata	13.50	15	1.51	
Hoplostethus occidentalis	9.20	5	1.03	
APOGONIDAE	9.00	210	1.00	
Synagrops bellus	4.50	465	0.50	
Epigonus macrops	3.75	165	0.42	
Ceolorinchus caribbaeus	3.00	120	0.33	
Polymixia lowei	3.00	75	0.33	
Hoplostethus perlo	1.50	2	0.17	
Oxymetopus sp	1.50	1	0.17	
Nealotus tripes	0.30	60	0.03	
Bombrops sp	0.30	45	0.03	
Total	896.95		99.99	

PROJECT STATION: 813
 DATE: 10/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1050 Long W 6654
 start stop duration Purpose code: 3
 TIME : 17:30 18:00 30 (min) Area code : 3
 LOG : 1306.60 1308.30 1.70 GearCond.code: 3
 FDEPTH: 97 101 Validity code:
 BDEPTH: 97 101
 Towing dir: 235° Wire out: 500 m Speed: 31 kn*10

Sorted: 89 Kg Total catch: 89.95 CATCH/HOUR: 179.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus vivanus	89.60	12	44.80	456
Seriola rivoliana	46.80	12	26.01	457
Holanthias martinicensis	31.50	3246	17.51	459
Upeneus parvus	18.50	2722	10.28	458
Dactylopterus volitans	1.20	4	0.67	
Fistularia petimba	0.60	4	0.33	
Chromis sp.	0.50	18	0.20	
Pronotogrammus eos	0.20	6	0.11	
Total	179.90		99.99	

PROJECT STATION: 810
 DATE: 10/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 6619
 start stop duration Purpose code: 3
 TIME : 02:45 03:45 60 (min) Area code : 3
 LOG : 1293.20 1296.20 3.00 GearCond.code: 3
 FDEPTH: 457 460 Validity code:
 BDEPTH: 457 460
 Towing dir: 270° Wire out: 1350 m Speed: 27 kn*10

Sorted: 10 Kg Total catch: 30.35 CATCH/HOUR: 30.35

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Steindachneria argenta	8.10	301	26.69	
Plecticus robustus	6.00	140	19.77	448
Illex coindetii	5.00	28	16.47	450
Polymixia lowei	2.00	35	9.23	
Benthodesmus tenuis	1.50	69	4.94	
Merluccius albidus	1.40	2	4.61	
Glyphocrangon sp	1.00	363	3.29	
POLYCHELIDAE	0.75	7	2.47	
Ceolorinchus caribbaeus	0.70	11	2.31	
BATHYCLUPEIDAE	0.60	16	1.98	
Apogeton sp	0.50	12	1.65	
MORIDAE	0.50	16	1.65	
Aristaeomorpha foliacea	0.50	19	1.65	449
Bathynomus giganteus	0.40	4	1.32	
Pholidoteuthis sp.	0.10	1	0.33	
Etmopterus sp	0.10	3	0.33	
Bombrops anactirostris	0.10	1	0.33	
Synchiropus agassizii	0.10	1	0.33	
Peristedion miniatum	0.05	2	0.16	
Zalilutes mcgintyi	0.05	3	0.16	
Peristedion sp	0.05	2	0.16	
Argyropelecus aculeatus	0.05	11	0.16	
CRANGONIDAE	0.00	2		
CHAULIODONTIDAE	0.00	3		
Hildebrandia sp.	0.00	3		
Total	30.35		99.99	

PROJECT STATION: 814
 DATE: 11/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1033 Long W 6752
 start stop duration
 TIME : 00:55 01:25 30 (min) Purpose code: 3
 LOG : 1453.20 1454.80 1.60 Area code : 3
 FDEPTH: 72 72 GearCond. code:
 BDEPTH: 72 72 Validity code:
 Towing dir: 280° Wire out: 400 m Speed: 30 kn*10
 Sorted: 28 Kg Total catch: 89.15 CATCH/HOUR: 178.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	42.60	792	23.89	461
Eucinostomus argenteus	19.50	540	10.94	460
Saurida normani	17.40	360	9.76	
Aluterus monoceros	15.00	18	8.41	
Fish small non. comm.	12.00		6.73	
Haemulon aurolineatum	9.60	96	5.30	
Calamus pennatula	7.00	12	4.37	
Lutjanus synagris	7.20	12	4.04	
Trichurus lepturus	4.80	6	2.69	
Haemulon boschmae	4.80	366	2.69	
Prionotus stearnsi	4.20	246	2.36	
Penaeus brasiliensis	4.00	102	2.24	462
Loligo pealei	3.00	30	1.68	
Rhomboplites aurorubens	3.00	48	1.68	
Mutellus bigmani	3.00	6	1.68	
Aluterus sp	2.40	6	1.35	
GEMPYLIDAE	2.40	48	1.35	
Prionotus punctatus	2.40	6	1.35	
APOGONIDAE	2.40	366	1.35	
Upeneus parvus	2.40	66	1.35	
Lepophidium pheromystax	1.80	72	1.01	
Nealotus tripes	0.90	12	0.50	
Fistularia petimba	0.60	6	0.34	
Cyclosetta sp.	0.60	12	0.34	
Serranus phoebe	0.60	120	0.34	
Trachurus lathami	0.60	30	0.34	
Scorpaena sp.	0.60	18	0.34	
Prionotus beani	0.60	42	0.34	
Caulolatilus cyanops	0.60	6	0.34	
Haemulon steindachneri	0.60	6	0.34	
Gymnothorax ocellatus	0.40	4	0.22	
Diplectrum radiata	0.30	18	0.17	
Penaeus notialis	0.20	8	0.11	
Hildebrandia sp.	0.00	6		
ORHIDIIDAE	0.00	48		
Porichthys sp	0.00	10		
Sphaeroides sp	0.00	354		
DACTYLOPTERIDAE	0.00	12		
Chaetodon guyanensis	0.00	6		
Total	178.30		100.02	

PROJECT STATION: 815
 DATE: 11/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1040 Long W 6756
 start stop duration
 TIME : 02:30 03:00 30 (min) Purpose code: 3
 LOG : 1462.70 1464.40 1.70 Area code : 3
 FDEPTH: 80 80 GearCond. code:
 BDEPTH: 80 80 Validity code:
 Towing dir: 273° Wire out: 400 m Speed: 31 kn*10
 Sorted: 23 Kg Total catch: 79.95 CATCH/HOUR: 159.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	25.00	2566	15.63	464
APOGONIDAE	18.50	2316	11.57	
Calamus pennatula	16.60	20	10.30	
Haemulon melanurum	16.50	300	10.32	
Lutjanus analis	12.00	4	7.50	
Paralichthys tropicus	8.00	6	5.00	
Lutjanus synagris	7.80	12	4.88	
Fish small non. comm.	7.60		4.75	
Eucinostomus argenteus	7.50	240	4.69	
Saurida normani	6.00	180	3.75	
Haemulon boschmae	5.50	566	3.44	
Rhomboplites aurorubens	5.00	60	3.13	
Prionotus punctatus	3.00	6	2.30	
Trichurus lepturus	2.50	6	1.56	
Upeneus parvus	2.50	106	1.56	
Diplectrum bivittatum	1.80	66	1.13	
Haemulon aurolineatum	1.60	2	1.00	
Lutjanus purpureus	1.60	6	1.00	
Plesionika edwardsii	1.50	566	0.94	
Lepophidium sp	1.50	170	0.94	
Penaeus brasiliensis	1.26	52	0.75	465
Sphyræna quachancho	1.00	6	0.63	
Loligo pealei	1.00	26	0.63	
Serranus phoebe	1.00	46	0.63	
Prionotus stearnsi	1.00	40	0.63	
GEMPYLIDAE	1.00	10	0.63	
Trachurus lathami	0.00	16	0.50	
Fistularia petimba	0.50	10	0.31	
Prionotus roseus	0.50	10	0.31	
Hoplunnis sp	0.00	76		
Porichthys sp	0.00	10		
Holocentrus adacensionis	0.00	10		
Caulolatilus cyanops	0.00	6		
Parques sp	0.00	6		
Lepophidium pheromystax	0.00	10		
Total	160.00		100.57	

PROJECT STATION: 816
 DATE: 11/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1042 Long W 6809
 start stop duration
 TIME : 04:25 05:05 40 (min) Purpose code: 3
 LOG : 1477.00 1478.70 1.70 Area code : 3
 FDEPTH: 40 44 GearCond. code:
 BDEPTH: 40 44 Validity code:
 Towing dir: 10° Wire out: 200 m Speed: 35 kn*10
 Sorted: 20 Kg Total catch: 85.05 CATCH/HOUR: 127.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	23.78	60	18.64	466
Diapterus rhombus	22.50	165	17.64	
Prionotus punctatus	14.70	53	11.52	
Lutjanus analis	13.95	14	10.93	467
Calamus pennatula	10.50	18	8.23	468
Eucinostomus argenteus	5.70	128	4.47	
Haemulon aurolineatum	5.10	170	4.00	
Chloroscombrus chrysurus	5.10	38	4.00	
Sphyræna plicatella	3.75	30	2.94	
Diplectrum bivittatum	3.75	48	2.94	
Ophidion holbrooki	3.60	410	2.82	
SYNDONOTIDAE	2.05	815	2.23	
Rhomboplites aurorubens	2.70	15	2.12	
Priacanthus arenatus	2.25	5	1.76	
Conodon nobilis	1.50	5	1.10	
Holocentrus rufus	1.20	5	0.94	
Aluterus monoceros	1.13	5	0.89	
Sphyræna quachancho	0.90	5	0.71	
Haemulon boschmae	0.90	210	0.71	
Selar crumenophthalmus	0.60	8	0.47	
Lutjanus purpureus	0.45	3	0.35	
Pristipomoides macrophthalmus	0.38	177	0.30	
Upeneus parvus	0.15	68	0.12	
Dactylopterus volitans	0.15	5	0.12	
Apogon sp	0.00	12		
Astracopogon alutus	0.00	23		
Lutjanus vivanus	0.00	8		
Duocaportus macarellus	0.00	8		
Porichthys pauciradiatus	0.00	15		
Lepophidium pheromystax	0.00	5		
Penaeus brasiliensis	0.00	20		
Syacium micrurum	0.00	8		
Loligo pealei	0.00	38		
Penaeus sp	0.00	72		
Saurida sp	0.00	5		
Synodus poeyi	0.00	5		
Total	127.58		100.03	

PROJECT STATION: 817
 DATE: 11/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1056 Long W 6808
 start stop duration
 TIME : 06:45 07:15 30 (min) Purpose code: 3
 LOG : 1492.00 1493.30 1.30 Area code : 3
 FDEPTH: 71 73 GearCond. code:
 BDEPTH: 71 73 Validity code:
 Towing dir: 327° Wire out: 350 m Speed: 31 kn*10
 Sorted: 9 Kg Total catch: 56.35 CATCH/HOUR: 112.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	18.00	522	15.97	469
Lutjanus analis	17.40	4	15.44	
Lutjanus synagris	16.00	28	14.20	470
Sphyræna barracuda	9.20	2	8.16	
Caulolatilus intermedius	8.40	24	7.45	
Scomberomorus cavalla	7.00	2	6.21	
Rhizopogon porcus	7.00	2	6.21	
Eucinostomus argenteus	5.40	96	4.79	
Selar crumenophthalmus	4.80	42	4.26	
Selene vomer	4.80	6	4.26	
Upeneus parvus	3.60	150	3.19	
Solene spixii	2.40	6	2.13	
Cyclosetta chittendeni	2.40	6	2.13	
Penaeus notialis	1.80	36	1.60	
Chloroscombrus chrysurus	1.80	24	1.60	
Saurida normani	0.90	36	0.80	
Priacanthus arenatus	0.90	6	0.80	
Serranus atrobranchus	0.30	48	0.27	
Diplectrum bivittatum	0.30	18	0.27	
Synodus poeyi	0.30	12	0.27	
Syacium sp.	0.00	6		
Ogcocephalus vespertilio	0.00	12		
Total	112.70		100.01	

PROJECT STATION: 818
 DATE: 11/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1105 Long W 6814
 start stop duration
 TIME : 08:40 09:10 30 (min) Purpose code: 3
 LOG : 1504.30 1505.90 1.60 Area code : 3
 FDEPTH: 60 75 GearCond. code:
 BDEPTH: 60 75 Validity code:
 Towing dir: 327° Wire out: 350 m Speed: 32 kn*10
 Sorted: 36 Kg Total catch: 36.60 CATCH/HOUR: 73.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	12.40	4	16.94	
Eucinostomus argenteus	11.00	210	15.03	472
Calamus penna	7.40	6	10.11	
Sphyræna barracuda	7.20	2	9.84	
Lutjanus synagris	7.00	10	9.56	
Lutjanus purpureus	6.30	28	8.61	471
Loligo pici	6.00	1596	8.20	
Pristipomoides macrophthalmus	3.20	52	4.37	
Chloroscombrus chrysurus	3.00	36	4.10	
Scomberomorus cavalla	2.00	2	2.73	
Trachurus lathami	1.40	52	1.91	
Albula neoptera	1.20	2	1.64	
Cyclosetta chittendeni	1.00	2	1.37	
Opisthonema oxilimum	0.80	4	1.09	
Caulolatilus intermedius	0.80	2	1.09	
Fistularia petimba	0.60	2	0.82	
Lagocephalus laevigatus	0.60	2	0.82	
Lutjanus buccanella	0.50	2	0.68	
Priacanthus arenatus	0.40	2	0.55	
Saurida normani	0.30	6	0.41	
Upeneus parvus	0.10	4	0.14	
Loligo pealei	0.00	2		
Selar crumenophthalmus	0.00	2		
Total	73.20		100.01	

DATE:11/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1114 Long W 6821
 TIME : 10:30 start stop duration Purpose code: 3
 LOG :1517.20 1517.20 0.00 Area code : 3
 FDEPTH: 89 102 GearCond.code: 9
 BDEPTH: 89 102 Validity code: 9
 Towing dir: 312° Wire out: 450 m Speed: 30 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
NO CATCH	weight numbers		
Total	0.00		

DATE:11/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1123 Long W 6831
 TIME : 12:25 start stop duration Purpose code: 3
 LOG :1533.50 1533.60 0.10 Area code : 3
 FDEPTH: 78 78 GearCond.code: 9
 BDEPTH: 78 78 Validity code: 9
 Towing dir: 295° Wire out: 400 m Speed: 32 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
NO CATCH	weight numbers		
Total	0.00		

DATE:11/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1121 Long W 6827
 TIME : 15:00 start stop duration Purpose code: 3
 LOG :1541.50 1542.30 0.80 Area code : 3
 FDEPTH: 80 85 GearCond.code: 9
 BDEPTH: 80 85 Validity code: 9
 Towing dir: 310° Wire out: 350 m Speed: 35 kn*10

Sorted: 4 Kg Total catch: 4.25 CATCH/HOUR: 12.75

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Calamus penna	7.50	9	58.82
Lutjanus purpureus	1.95	3	15.29
Lutjanus synagris	1.80	3	14.12
Lutjanus vivanus	1.35	3	10.59
Pomaneus subtilis	0.15	3	1.18
Total	12.75		100.00

DATE:11/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1129 Long W 6836
 TIME : 17:35 start stop duration Purpose code: 3
 LOG :1556.70 1558.10 1.40 Area code : 3
 FDEPTH: 392 409 GearCond.code: 9
 BDEPTH: 392 409 Validity code: 9
 Towing dir: 285° Wire out:1150 m Speed: 37 kn*10

Sorted: 36 Kg Total catch: 36.20 CATCH/HOUR: 108.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Illex coindetti	40.80	333	37.57
Synagrops bellus	20.10	354	18.51
Steindachneria argenta	19.50	342	17.96
Nezumia sp	4.50	96	4.14
Bathynomus giganteus	3.90	6	3.59
Homotocarcinus rotundus	3.60	576	3.31
Bembrops sp	3.30	39	3.04
Plecticus robustus	3.30	72	3.04
Ariomma melanus	2.55	24	2.35
Morluccius albidus	1.50	3	1.38
Stomporcus pusillus	1.50	24	1.38
MORIDAE	0.90	10	0.83
Plesionika edwardsii	0.75	42	0.69
Peristodion sp	0.60	42	0.55
Noalotus tripos	0.45	3	0.41
LOBNIOO	0.45	15	0.41
Xenolepidichthys dalgleishi	0.30	27	0.28
Zenion hololepis	0.30	27	0.28
Argentina sp.	0.15	9	0.14
Lepidopus caudatus	0.15	3	0.14
MYCOPHIDAR	0.00	45	
Leotrolophis intermedia	0.00	6	
Lucania sp	0.00	3	
Argyropelacus sp	0.00	21	
Chlorophthalmus sp.	0.00	3	
Total	108.60		100.00

DATE:12/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1140 Long W 6904
 TIME : 04:35 start stop duration Purpose code: 3
 LOG :1612.40 1615.00 3.40 Area code : 3
 FDEPTH: 337 350 GearCond.code: 9
 BDEPTH: 337 350 Validity code: 9
 Towing dir: 200° Wire out:1050 m Speed: 32 kn*10

Sorted: 19 Kg Total catch: 47.81 CATCH/HOUR: 47.81

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Coelorinchus sp	18.40	364	30.49
Steindachneria argenta	5.00	214	10.46
Pontinus longispinus	4.00	24	8.37
Argentina sp.	4.00	232	8.37
Lophius gastrophycus	4.00	1	8.37
Polymixia lowei	3.40	36	7.11
Torpedo nobiliana	2.50	1	5.23
Squalus blainvillei	1.70	1	3.56
Illex coindetti	1.20	8	2.51
Plecticus robustus	1.00	220	2.09
Morluccius albidus	1.00	3	2.09
Parapomus longirostris	0.80	140	1.67
Bembrops anatrostris	0.30	14	0.63
Hildebrandia sp.	0.20	4	0.42
Synagrops sp.	0.10	12	0.21
Cyttopsis roseus	0.10	20	0.21
Argyropelacus aculeatus	0.06	48	0.13
LOBNIOO	0.05	5	0.10
Symphurus sp	0.00	2	
Poecilopsotta sp	0.00	2	
Gonostoma elongatum	0.00	8	
MYCOPHIDAR	0.00	8	
PARDALIDAE	0.00	8	
Plesionika edwardsii	0.00	6	
Zenion hololepis	0.00	2	
Epigonus sp	0.00	24	
Total	47.81		100.02

DATE:12/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 6909
 TIME : 07:05 start stop duration Purpose code: 3
 LOG :1626.10 1627.00 1.70 Area code : 3
 FDEPTH: 159 153 GearCond.code: 9
 BDEPTH: 159 153 Validity code: 9
 Towing dir: 282° Wire out: 750 m Speed: 34 kn*10

Sorted: 23 Kg Total catch: 23.67 CATCH/HOUR: 47.34

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Pristipomoides macrophthalms	12.60	92	26.62
Trachurus lathami	8.00	36	16.90
Caulolatilus intermedius	5.20	14	10.98
Rhomboplites aurorubens	4.64	18	9.80
Trichurus lepturus	4.40	6	9.29
Loligo pealei	2.80	6	5.91
Hemanthias leptus	2.30	8	4.86
Pomadasys croco	1.30	2	2.75
Fistularia petimba	1.20	0	2.53
Octopus vulgaris	0.80	2	1.69
Epinephelus flavolimbatus	0.80	2	1.69
Pontinus longispinus	0.60	2	1.27
Saurida normani	0.60	10	1.27
Selene spixi	0.60	2	1.27
Prionotus beani	0.60	2	1.27
Synodus poeyi	0.50	6	1.06
Priacanthus arenatus	0.40	0	0.84
Pontinus castor	0.30	2	0.63
Peristodion sp	0.20	2	0.42
Pomaneus brasiliensis	0.10	4	0.21
Total	47.34		99.99

DATE:12/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 6917
 TIME : 08:45 start stop duration Purpose code: 3
 LOG :1636.20 1637.20 1.00 Area code : 3
 FDEPTH: 49 54 GearCond.code: 9
 BDEPTH: 49 54 Validity code: 9
 Towing dir: 300° Wire out: 250 m Speed: 30 kn*10

Sorted: 22 Kg Total catch: 69.30 CATCH/HOUR: 166.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Lutjanus synagris	52.00	115	31.75
Eucinostomus argenteus	26.40	595	15.07
Rhomboplites aurorubens	19.20	43	11.54
Scomberomorus cavalla	13.20	2	7.94
Calamus penna	12.72	14	7.65
Upeneus parvus	9.36	566	5.63
Albula neoptera	5.20	10	3.17
Acanthostracion quadricornis	4.80	19	2.89
Paralichthys tropicus	4.32	2	2.60
Selene vomer	3.60	5	2.16
Calamus penna	2.40	5	1.44
Lutjanus analis	2.40	2	1.44
Pristipomoides macrophthalms	2.40	48	1.44
Lutjanus purpureus	1.92	7	1.15
Sycaium papillosum	1.44	67	0.87
Fistularia petimba	1.44	5	0.87
Lutjanus vivanus	1.20	7	0.72
Serranus atrobranchus	0.48	67	0.29
Synodus foetens	0.48	5	0.29
Prionotus punctatus	0.24	10	0.14
Priacanthus arenatus	0.24	5	0.14
Pomaneus notialis	0.00	5	
Selar cruenophthalmus	0.00	5	
Pomaneus brasiliensis	0.00	19	
Total	166.32		99.99

DATE:12/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1145 Long W 6922
 TIME : 10:43 start stop duration Purpose code: 3
 LOG :1649.80 1650.00 1.00 Area code : 3
 FDEPTH: 252 299 GearCond.code: 9
 BDEPTH: 252 299 Validity code: 9
 Towing dir: 306° Wire out:1000 m Speed: 31 kn*10

Sorted: 20 Kg Total catch: 26.45 CATCH/HOUR: 79.35

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Trichurus lepturus	29.40	72	37.05
Synagrops sp.	23.40	1725	29.49
Saurida normani	7.20	27	9.07
Illex coindetti	6.00	195	7.56
Loligo pealei	2.70	96	3.40
Pristipomoides macrophthalms	2.40	9	3.02
Lutjanus synagris	2.10	3	2.65
Hemanthias leptus	1.95	15	2.46
Xenopsis ocellata	1.20	15	1.51
Acanthostracion quadricornis	0.75	3	0.95
Peristodion sp	0.75	27	0.95
Pontinus longispinus	0.60	6	0.76
Fistularia petimba	0.30	3	0.38
Nezumia suilla	0.30	9	0.38
Peristodion minutum	0.15	3	0.19
Antigonia combata	0.15	15	0.19
Argentina sp.	0.00	3	
Bembrops anatrostris	0.00	3	
Pythonichthys sanguineus	0.00	3	
LOBNIOO	0.00	3	
Antigonia capros	0.00	3	
Total	79.35		100.01

DATE:12/ 9/80 GEAR TYPE: BT No:1 POSITION:Lat N 1144 Long W 6936
 TIME : 12:45 start stop duration Purpose code: 3
 LOG :1664.40 1666.00 1.60 Area code : 3
 FDEPTH: 26 24 GearCond.code: 9
 BDEPTH: 26 24 Validity code: 9
 Towing dir: 320° Wire out: 150 m Speed: 31 kn*10

Sorted: 25 Kg Total catch: 25.10 CATCH/HOUR: 50.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight numbers			
Calamus penna	22.00	76	43.82
Lutjanus analis	17.00	18	33.86
Lutjanus synagris	4.00	16	7.97
Scomberomorus cavalla	2.20	2	4.38
Loligo plei	1.80	336	3.59
Acanthostracion quadricornis	1.20	4	2.39
Fistularia petimba	1.20	4	2.39
Eucinostomus argenteus	0.80	8	1.59
Total	50.20		99.99

PROJECT STATION: 828
 DATE: 12/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1154 Long W 6940
 start stop duration Purpose code: 3
 TIME : 14:15 14:45 30 (min) Area code : 3
 LOG : 1674.00 1675.40 1.40 GearCond. code: 3
 FDEPTH: 53 53 Validity code:
 DDEPTH: 53 53
 Towing dir: 335° Wire out: 250 m Speed: 29 kn*10
 Sorted: 70 Kg Total catch: 70.10 CATCH/HOUR: 140.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	35.00	74	24.96	486
Lutjanus analis	29.40	28	20.97	487
Eucinostomus argenteus	17.40	82	12.41	488
Rhomboplites aurorubens	15.00	144	10.70	489
Lutjanus purpurus	0.60	36	6.13	490
Prionotus punctatus	6.00	16	4.28	
Loligo plei	5.00	706	4.14	
Scorpaenopsis cavalla	4.50	2	3.21	
Upeneus parvus	4.30	270	3.07	
Galistes vetula	4.00	2	2.85	
Calanus penna	3.40	4	2.43	
Lutjanus vivanus	1.60	4	1.14	
Selar crumenophthalmus	1.30	46	0.93	
Acanthostracion quadricornis	1.00	2	0.71	
Sciæna spixii	1.00	2	0.71	
Prionotus punctatus	1.00	4	0.71	
Saurida normani	0.40	2	0.29	
Pistularia petimba	0.30	4	0.21	
Caranx crysos	0.20	2	0.14	
Total	140.20		99.99	

PROJECT STATION: 829
 DATE: 12/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1203 Long W 6947
 start stop duration Purpose code: 3
 TIME : 16:05 16:20 15 (min) Area code : 3
 LOG : 1606.60 1607.10 0.50 GearCond. code: 4
 FDEPTH: 50 44 Validity code: 9
 DDEPTH: 50 44
 Towing dir: 320° Wire out: 250 m Speed: 23 kn*10
 Sorted: 13 Kg Total catch: 13.10 CATCH/HOUR: 52.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	17.60	36	71.76	491
Lachnolepis maximus	0.00	4	15.27	
Halistes vetula	6.00	4	12.98	
Total	52.40		100.01	

PROJECT STATION: 830
 DATE: 12/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1220 Long W 7008
 start stop duration Purpose code: 3
 TIME : 20:00 20:30 30 (min) Area code : 3
 LOG : 1714.40 1715.80 1.40 GearCond. code: 3
 FDEPTH: 30 53 Validity code:
 DDEPTH: 38 53
 Towing dir: 294° Wire out: 200 m Speed: 26 kn*10
 Sorted: 28 Kg Total catch: 131.80 CATCH/HOUR: 263.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Calanus penna	32.70	84	12.41	
Eucinostomus argenteus	32.10	1038	12.18	
Lutjanus analis	20.80	40	10.93	492
Prionotus punctatus	20.10	156	7.63	
Lutjanus griseus	19.60	26	7.44	494
Halistes capricornis	18.00	24	6.83	
Acanthostracion quadricornis	18.00	60	6.83	
Rhomboplites aurorubens	16.90	60	6.41	
Lutjanus synagris	13.00	36	4.93	493
Calanus pennatula	12.30	30	4.67	
Albula vulpes	12.00	18	4.55	
Trachinocephalus myops	12.00	156	4.55	
Upeneus parvus	11.70	602	4.44	
Haemulon steindachneri	9.00	54	3.41	
Seriola rivoliana	2.40	12	0.91	
Syacium micrurus	2.10	54	0.60	
Pristipomoides macrophthalmus	0.90	30	0.34	
Chloroscombrus chrysurus	0.60	6	0.23	
Panesus brasiliensis	0.50	14	0.19	495
Sardinella aurita	0.30	6	0.11	
Haemulon boschmae	0.30	24	0.11	
Ophidion holbrooki	0.30	12	0.11	
Synodus sp	0.00	12		
Bochus lunatus	0.00	12		
Porichthys pauciradiatus	0.00	192		
Synodus poeyi	0.00	66		
Prionotus stearnsi	0.00	30		
Prionotus punctatus	0.00	6		
Diplectrum formosum	0.00	36		
Diplectrum bivittatum	0.00	18		
Dactylopterus volitans	0.00	12		
Lepophidium pheromystax	0.00	24		
Total	263.60		100.01	

PROJECT STATION: 831
 DATE: 12/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1225 Long W 7017
 start stop duration Purpose code: 3
 TIME : 22:00 22:30 30 (min) Area code : 3
 LOG : 1725.70 1727.40 1.70 GearCond. code: 3
 FDEPTH: 73 74 Validity code:
 DDEPTH: 73 74
 Towing dir: 260° Wire out: 350 m Speed: 35 kn*10
 Sorted: 9 Kg Total catch: 38.50 CATCH/HOUR: 77.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lepophidium profundorum	15.20	752	19.74	
Sphyraena picudilla	15.00	102	19.48	
Pristipomoides macrophthalmus	10.52	344	13.66	
Saurida normani	8.10	48	10.52	496
Panesus brasiliensis	4.70	142	6.10	
Serranus atrobranchus	3.90	280	5.06	
Prionotus stearnsi	3.90	484	5.06	
Trachurus lathami	3.50	180	4.55	
Epinephelus flavolimbatus	3.00	2	3.90	
Prionotus punctatus	1.80	12	2.34	
Hildebrandia sp.	1.56	40	2.03	
Upeneus parvus	1.16	16	1.51	
Synodus poeyi	1.16	40	1.51	
Trichurus lepturus	0.90	6	1.17	
Ctenosciaena gracilicirrus	0.78	24	1.01	
Etrumeus teres	0.78	62	1.01	
Shrimps, small, non comm.	0.78	8	1.01	
Caulolatilus intermedius	0.38	8	0.49	
Porichthys pauciradiatus	0.38	110	0.49	
Panesus brasiliensis	0.20	4	0.26	
Anchoa parva	0.00	16		
Haliutichthys aculeatus	0.00	16		
Lopholoebe reticulatus	0.00	8		
Hoplunnis sp	0.00	8		
Total	77.70		100.90	

PROJECT STATION: 832
 DATE: 12/ 9/88 GEAR TYPE: BT No:4 POSITION: Lat N 1227 Long W 7019
 start stop duration Purpose code: 1
 TIME : 23:30 24:00 30 (min) Area code : 3
 LOG : 1729.40 1730.80 1.40 GearCond. code: 3
 FDEPTH: 35 35 Validity code:
 DDEPTH: 75 76
 Towing dir: 270° Wire out: 175 m Speed: 32 kn*10
 Sorted: 36 Kg Total catch: 90.50 CATCH/HOUR: 181.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Etrumeus teres	121.50	7922	67.13	497
Anchoa lyolepis	42.00	4852	23.20	498
Auxis thazard	10.00	6	5.52	
Sphyraena guachancho	3.00	6	1.66	
Scomber japonicus	3.00	50	1.66	
Engraulis eurystole	1.00	106	0.55	
Sardinella aurita	0.50	10	0.28	
Prionotus stearnsi	0.00	6		
Prionotus stearnsi	0.00	10		
Total	181.00		100.00	

PROJECT STATION: 833
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7025
 start stop duration Purpose code: 3
 TIME : 01:35 02:05 30 (min) Area code : 3
 LOG : 1739.40 1741.00 1.60 GearCond. code: 3
 FDEPTH: 73 73 Validity code:
 DDEPTH: 73 73
 Towing dir: 270° Wire out: 350 m Speed: 31 kn*10
 Sorted: 10 Kg Total catch: 43.14 CATCH/HOUR: 86.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Etrumeus teres	22.00	996	25.50	
Upeneus parvus	14.40	1180	16.69	
Pristipomoides macrophthalmus	12.24	482	14.19	
Lepophidium profundorum	5.76	468	6.68	
Panesus brasiliensis	5.00	132	5.80	499
Serranus phoebe	3.60	122	4.17	
Sphyraena picudilla	3.20	20	3.71	
Trachurus lathami	2.88	44	3.34	
Porichthys pauciradiatus	2.88	280	3.34	
Loligo pealei	2.88	44	2.50	
Prionotus stearnsi	2.16	172	2.50	
Eucinostomus argenteus	1.44	28	1.67	
Hoplunnis sp	1.44	94	1.67	
Prionotus stearnsi	1.44	6	1.67	
Synodus poeyi	1.20	12	1.39	
Scomber japonicus	1.08	8	1.25	
Hildebrandia sp.	1.08	22	1.25	
Caulolatilus intermedius	0.72	8	0.83	
Trichurus lepturus	0.60	6	0.70	
Panesus brasiliensis	0.60	6	0.70	
Equetus lanceolatus	0.40	2	0.46	
Total	86.28		100.01	

PROJECT STATION: 834
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7033
 start stop duration Purpose code: 3
 TIME : 03:00 03:30 30 (min) Area code : 3
 LOG : 1746.60 1748.30 1.70 GearCond. code: 3
 FDEPTH: 67 67 Validity code:
 DDEPTH: 67 67
 Towing dir: 270° Wire out: 325 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 71.65 CATCH/HOUR: 143.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus argenteus	20.80	624	20.10	
Pristipomoides macrophthalmus	24.00	760	16.75	
Haemulon steindachneri	11.20	64	7.82	
Rhomboplites aurorubens	9.40	64	6.56	500
Etrumeus teres	8.00	208	5.58	
Trachurus lathami	8.00	256	5.58	
Upeneus parvus	8.00	224	5.58	
Prionotus stearnsi	7.00	36	4.88	
Loligo plei	4.80	64	3.35	
Sardinella aurita	4.80	96	3.35	
Saurida normani	4.00	8	2.79	
Haemulon boschmae	3.20	144	2.23	
APOGONIDAE	3.20	352	2.23	
Synodus poeyi	3.20	16	2.23	
Panesus brasiliensis	3.20	80	2.23	
Parachanna obscura	2.40	32	1.67	501
Paralichthys tropicus	2.00	4	1.40	
Cyclosetta chittendeni	2.00	6	1.40	
Dactylopterus volitans	1.60	32	1.12	
Lutjanus synagris	1.00	2	0.70	
Lagocephalus laevigatus	1.00	2	0.70	
Porichthys pauciradiatus	0.80	80	0.56	
Serranus phoebe	0.80	64	0.56	
Trichurus lepturus	0.60	2	0.42	
Pistularia petimba	0.30	2	0.21	
Parexocoetus brachypterus	0.00	16		
Prionotus stearnsi	0.00	32		
Prionotus stearnsi	0.00	48		
Total	143.30		100.00	

PROJECT STATION: 835
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1234 Long W 7047
 start stop duration Purpose code: 3
 TIME : 08:05 08:35 30 (min) Area code : 3
 LOG : 1784.70 1786.10 1.40 GearCond. code: 3
 FDEPTH: 76 75 Validity code:
 DDEPTH: 76 75
 Towing dir: 190° Wire out: 400 m Speed: 31 kn*10
 Sorted: 20 Kg Total catch: 20.75 CATCH/HOUR: 41.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Upeneus parvus	32.00	1838	77.11	502
Prionotus stearnsi	3.30	36	7.95	
Pristipomoides macrophthalmus	3.00	112	7.23	503
Eucinostomus argenteus	1.70	30	4.10	
Trachurus lathami	0.40	18	0.96	
Pistularia petimba	0.40	6	0.96	
Saurida normani	0.20	2	0.48	
Loligo plei	0.20	10	0.48	
Synodus poeyi	0.10	4	0.24	
Hoplunnis sp	0.00	4		
Hippocampus sp	0.00	2		
Prionotus stearnsi	0.00	2		
Dactylopterus volitans	0.00	2		
Total	41.50		99.99	

PROJECT STATION: 836
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1223 Long W 7047
 start stop duration
 TIME : 10:30 10:50 20 (min) Purpose code: 3
 LOG : 1799.90 1000.70 0.00 Area code : 3
 FDEPTH: 67 67 GearCond.code: 3
 DDEPTH: 67 67 Validity code:
 Towing dir: 180° Wire out: 350 m Speed: 32 kn*10
 Sorted: 29 Kg Total catch: 164.51 CATCH/HOUR: 493.53

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	111.90	42	22.67	506
Sardinella aurita	99.00	2871	20.06	508
Seriola dumerili	43.50	12	8.81	
Haemulon boschmae	29.25		5.93	
Scorpaenopsis japonicus	22.05	657	4.47	
Lutjanus purpurus	21.75	27	4.41	504
Haemulon aurolineatum	21.75	162	4.29	
Upeneus parvus	19.35	1701	3.92	
Lutjanus synagris	10.63	33	3.77	505
Mucinostomus argenteus	10.65	432	3.37	
Rhomboplites aurorubens	15.00	195	3.04	507
Trachurus lathami	13.50	666	2.74	
Priacanthus arenatus	12.00	39	2.43	
Pristigaster macrocephalus	7.20	432	1.46	
Pistalaria petimba	5.85	36	1.19	
Haemulon striatum	5.85	99	1.19	
Saurida normani	5.40	18	1.09	
Pagrus pagrus	5.25	12	1.06	
Selar crumenophthalmus	4.95	180	1.00	
Haemulon steindachneri	4.50	36	0.91	
Sphyraena picudilla	3.60	9	0.73	
Decapterus punctatus	3.60	171	0.73	
Loligo plei	1.80	90	0.36	
Calamus penae	1.00	3	0.36	
Diploctrum bivittatum	0.00	9		
Total	493.53		99.99	

PROJECT STATION: 840
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1208 Long W 7023
 start stop duration
 TIME : 18:50 19:20 30 (min) Purpose code: 3
 LOG : 1853.60 1054.30 0.70 Area code : 3
 FDEPTH: 50 58 GearCond.code: 3
 DDEPTH: 50 58 Validity code:
 Towing dir: 60° Wire out: 300 m Speed: 13 kn*10
 Sorted: 27 Kg Total catch: 93.25 CATCH/HOUR: 186.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Priacanthus arenatus	42.00	156	22.52	517
Lutjanus analis	19.40	4	10.40	
Sphyraena picudilla	18.90	9	10.13	
Paralichthys tropicus	16.50	18	8.65	
Upeneus parvus	15.90	852	8.53	516
Synodus poeyi	15.00	1092	8.04	
Sphyraena quachancho	7.80	12	4.18	
Trachurus lathami	6.30	246	3.38	
Selar crumenophthalmus	5.70	42	3.06	
Pomatomus saltatrix	5.70	12	3.06	
Loligo plei	5.10	234	2.73	
Eucinostomus argenteus	5.10	100	2.73	
Synodus foetens	3.90	10	2.09	
Pristigaster macrocephalus	3.90	144	2.09	
Rhomboplites aurorubens	2.40	30	1.29	
Prionotus punctatus	2.10	6	1.13	
Pagrus pagrus	2.10	6	1.13	
Lutjanus synagris	2.10	2	1.13	
Serranus atrobranchus	1.20	120	0.64	
Prionotus stearnsi	0.90	144	0.48	
Lepophidium profundorum	0.90	54	0.48	
Diploctrum bivittatum	0.90	4	0.48	
Sardinella aurita	0.90	24	0.48	
Chloroscombrus chrysurus	0.90	12	0.48	
Scorpaenopsis japonicus	0.60	24	0.32	
Krusimus toros	0.30	30	0.16	
Syacium micrum	0.00	6		
Bregmaceros sp.	0.00	30		
Porichthys pauciradiatus	0.00	36		
Monacanthus tomentosus	0.00	6		
Penaeus notialis	0.00	6		
Total	186.50		99.99	

PROJECT STATION: 837
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1209 Long W 7049
 start stop duration
 TIME : 12:30 13:00 30 (min) Purpose code: 3
 LOG : 1816.00 1017.60 1.60 Area code : 3
 FDEPTH: 63 59 GearCond.code: 3
 DDEPTH: 63 59 Validity code:
 Towing dir: 360° Wire out: 350 m Speed: 31 kn*10
 Sorted: 27 Kg Total catch: 222.00 CATCH/HOUR: 445.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhizoprionodon porosus	141.40	108	31.73	
Upeneus parvus	90.00	678	20.20	
Lutjanus synagris	28.00	54	6.28	511
Selene vomer	27.00	30	6.06	
Chloroscombrus chrysurus	26.10	546	5.06	
Lutjanus analis	26.00	12	5.83	510
Scorpaenopsis cavalla	21.00	18	4.71	
Eucinostomus argenteus	12.00	258	2.69	
Priacanthus arenatus	12.00	24	2.69	
Sphyraena quachancho	11.80	16	2.65	
Lutjanus purpurus	10.00	10	2.24	509
Sphyraena picudilla	9.20	28	2.06	
Pagrus pagrus	7.00	20	1.57	
Calamus penae	4.30	8	0.96	
Trachurus lathami	4.20	60	0.94	
Mycetopoma venosus	4.00	2	0.90	
Lachnolaimus eximius	4.00	4	0.90	
Synodus foetens	2.40	2	0.54	
Ocyurus chrysurus	1.60	2	0.36	
Saurida normani	1.20	2	0.27	
Diapterus rhombus	1.20	12	0.27	
Pristigaster macrocephalus	0.60	24	0.13	
Diploctrum bivittatum	0.30	6	0.07	
Sardinella aurita	0.30	18	0.07	
Loligo plei	0.00	6		
Selar crumenophthalmus	0.00	6		
Decapterus punctatus	0.00	6		
Total	445.60		99.98	

PROJECT STATION: 841
 DATE: 13/ 9/88 GEAR TYPE: FT No:4 POSITION: Lat N 1157 Long W 7022
 start stop duration
 TIME : 21:15 21:45 30 (min) Purpose code: 1
 LOG : 1069.50 1071.50 2.00 Area code : 3
 FDEPTH: 25 15 GearCond.code: 3
 DDEPTH: 42 46 Validity code:
 Towing dir: 207° Wire out: 125 m Speed: 41 kn*10
 Sorted: 47 Kg Total catch: 47.76 CATCH/HOUR: 95.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	64.80	1138	67.04	518
Sardinella aurita	9.70	194	10.15	519
Anchoviella lepidontostole	8.50	1122	8.90	520
Sphyraena quachancho	7.70	12	8.06	
Chloroscombrus chrysurus	1.60	44	1.60	
Sphyraena picudilla	1.40	8	1.47	
Eucinostomus argenteus	0.60	24	0.63	
Orthopristis ruber	0.40	2	0.42	
Selar crumenophthalmus	0.20	2	0.21	
Bregmaceros sp.	0.20	2	0.21	
Saurida normani	0.20	290	0.21	
Loligo plei	0.12	2	0.13	
Upeneus parvus	0.10	22	0.10	
Decapterus macarellus	0.00	10		
Decapterus punctatus	0.00	2		
Dactylopterus volitans	0.00	2		
Prionotus stearnsi	0.00	4		
Trachurus lathami	0.00	2		
Total	95.52		100.01	

PROJECT STATION: 830
 DATE: 13/ 9/88 GEAR TYPE: FT No:2 POSITION: Lat N 1209 Long W 7037
 start stop duration
 TIME : 15:30 16:00 30 (min) Purpose code: 1
 LOG : 1835.40 1036.90 1.50 Area code : 3
 FDEPTH: 40 40 GearCond.code: 3
 DDEPTH: 65 67 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 31 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
NO CATCH	0.00			
Total	0.00			

PROJECT STATION: 842
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1156 Long W 7024
 start stop duration
 TIME : 22:25 22:55 30 (min) Purpose code: 3
 LOG : 1873.00 1074.30 1.30 Area code : 3
 FDEPTH: 49 51 GearCond.code: 3
 DDEPTH: 49 51 Validity code:
 Towing dir: 272° Wire out: 250 m Speed: 30 kn*10
 Sorted: 24 Kg Total catch: 87.34 CATCH/HOUR: 174.68

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	41.10		23.53	
Synodus poeyi	27.00		15.46	
Sphyraena picudilla	18.40	104	10.53	
Synodus foetens	14.10	66	8.07	
Mucinostomus argenteus	11.10	384	6.35	
Penaeus brasiliensis	8.60	248	4.92	521
Pristigaster macrocephalus	8.10	498	4.64	
Trachurus lathami	5.10	132	2.92	
Priacanthus arenatus	5.10	24	2.92	
Haemulon steindachneri	4.80	60	2.75	
Diploctrum bivittatum	3.30	132	1.89	
Rhomboplites aurorubens	3.30	162	1.89	
Chloroscombrus chrysurus	3.00	172	1.72	
Serranus atrobranchus	3.00	144	1.72	
Lepophidium profundorum	2.70	4	1.55	
Prionotus punctatus	2.40	12	1.37	
Sardinella aurita	2.10	60	1.20	
Penaeus subtilis	1.20	22	0.69	522
Ophidion sp.	1.20	24	0.69	
Loligo plei	1.20	24	0.69	
Ariopsis analis	1.20	66	0.69	
Serranus phoebe	1.20	132	0.69	
Anolyopsetta quadricellata	0.90	6	0.52	
Porichthys pauciradiatus	0.90	138	0.52	
Orthopristis ruber	0.90	6	0.52	
Symphurus diomedianus	0.60	24	0.34	
Prionotus stearnsi	0.60	198	0.34	
Hilobrandia flava	0.60	12	0.34	
Hoplunnis sp.	0.30	16	0.17	
Pseudupeneus maculatus	0.30	6	0.17	
Penaeus notialis	0.20	6	0.11	523
Diplobatys guamachensis	0.12	6	0.07	
Sphoeroides testudineus	0.06	6	0.03	
Loligo plei	0.00	6		
Cyclosetta chittendeni	0.00	6		
Scorpaena sp.	0.00	12		
Dactylopterus volitans	0.00	42		
Anchoviella lepidontostole	0.00	30		
Total	174.68		100.01	

PROJECT STATION: 839
 DATE: 13/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1208 Long W 7039
 start stop duration
 TIME : 16:35 17:05 30 (min) Purpose code: 3
 LOG : 1839.60 1041.10 1.50 Area code : 3
 FDEPTH: 65 60 GearCond.code: 3
 DDEPTH: 65 60 Validity code:
 Towing dir: 90° Wire out: 300 m Speed: 28 kn*10
 Sorted: 48 Kg Total catch: 48.75 CATCH/HOUR: 97.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scorpaenopsis cavalla	44.00	4	45.13	
Priacanthus arenatus	15.20	142	15.59	512
Loligo plei	10.00	260	10.26	515
Saurida normani	6.00	36	6.15	
Upeneus parvus	6.00	100	6.15	513
Trachurus lathami	4.40	294	4.51	514
Sphyraena picudilla	3.00	16	3.08	
Rhomboplites aurorubens	1.40	4	1.44	
Pristigaster macrocephalus	1.20	28	1.23	
Opisthonema oglinum	1.00	4	1.03	
Lagocephalus laevigatus	1.00	2	1.03	
Eucinostomus argenteus	1.00	18	1.03	
Sphyraena quachancho	0.60	2	0.62	
Chloroscombrus chrysurus	0.50	10	0.51	
Prionotus stearnsi	0.40	10	0.41	
Scorpaenopsis japonicus	0.40	4	0.41	
Loligo plei	0.30	26	0.31	
Calamus corviconi	0.30	2	0.31	
Ctenopoma gracilicirrus	0.30	6	0.31	
Sardinella aurita	0.20	2	0.21	
Penaeus brasiliensis	0.10	2	0.10	
Diploctrum bivittatum	0.10	2	0.10	
Prionotus punctatus	0.10	2	0.10	
Total	97.50		100.02	

PROJECT STATION: 843
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1158 Long W 7036
 TIME : 00:10 start stop duration
 LOG : 1885.10 1006.70 30 (min) Purpose code: 3
 FDEPTH: 68 70 Area code : 3
 DDEPTH: 68 70 GearCond.code: 1
 Validity code:
 Towing dir: 200° Wire out: 350 m Speed: 34 kn*10

Sorted: 6 Kg Total catch: 119.32 CATCH/HOUR: 238.64

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Lepophidium sp	66.60	27.91	
Synodus poeyi	37.00	15.50	
Upeneus parvus	25.90	10.85	
Serranus atrobranchus	10.50	8.75	
Loligo pealei	14.80	6.20	
BIVALVES	14.80	6.20	
Sphyræna picudilla	10.80	4.53	
Prionotus stearnsi	9.24	3.87	
Pristipomoides macrophthalmus	9.24	3.87	
Chirocentron bleekermanus	7.40	3.10	
Sardinella aurita	7.40	3.10	
Hildebrandia flava	5.54	2.32	
Trachurus lathami	3.70	1.55	
Penaeus notialis	2.00	0.84	524
Prionotus roseus	1.84	0.77	
Eucinostoma argenteus	1.84	0.77	
Ctenosciaena gracilicirrhus	1.84	0.77	
Penaeus subtilis	0.20	0.08	
Caulolatilus sp	0.00		
Saurida normani	0.00		
Porichthys pauciradiatus	0.00		
Total	238.64	99.98	

PROJECT STATION: 847
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7058
 TIME : 09:35 start stop duration
 LOG : 1943.60 1944.80 25 (min) Purpose code: 3
 FDEPTH: 22 20 Area code : 3
 DDEPTH: 22 20 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 27 kn*10

Sorted: 87 Kg Total catch: 87.00 CATCH/HOUR: 208.80

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Chloroscombrus chrysurus	101.28	48.51	529
Trichurus lepturus	27.60	9.4	
Anchoa filifera	19.68	5.974	
Loligo pealei	12.00	2.448	
Lutjanus synagris	10.44	5.75	
Chirocentron bleekermanus	7.68	8.19	
Micropogonias furnieri	7.68	17	
Scomberomorus brasiliensis	7.44	10	
Sphyræna picudilla	5.52	3.4	
Cynoscion lolaehus	2.64	2	
Oligoplites paucicauda	1.80	2	
Peprilus paru	1.44	2	
Opisthonema oglinum	1.44	5	
Rhizophronodon porosus	1.08	31	
Cynoscion jamaicensis	0.48	2	
Selene apixii	0.36	7	
Synodus foetens	0.24	10	
Diapturus rhombeus	0.24	2	
Total	208.80	99.99	

PROJECT STATION: 844
 DATE: 14/ 9/88 GEAR TYPE: FT No:4 POSITION: Lat N 1205 Long W 7041
 TIME : 02:00 start stop duration
 LOG : 1094.90 1096.40 30 (min) Purpose code: 1
 FDEPTH: 0 0 Area code : 3
 DDEPTH: 64 64 GearCond.code: 1
 Validity code:
 Towing dir: 70° Wire out: 75 m Speed: 29 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
NO CATCH	0.00		
Total			

PROJECT STATION: 846
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7111
 TIME : 11:20 start stop duration
 LOG : 1956.80 1958.20 30 (min) Purpose code: 3
 FDEPTH: 15 16 Area code : 3
 DDEPTH: 15 16 GearCond.code: 1
 Validity code:
 Towing dir: 260° Wire out: 100 m Speed: 27 kn*10

Sorted: 41 Kg Total catch: 41.60 CATCH/HOUR: 83.20

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Chloroscombrus chrysurus	32.00	934	38.46
Opisthonema oglinum	13.60	192	16.35
Lolliguncula brevis	11.20	1662	13.46
Micropogonias furnieri	6.00	74	7.21
Trichurus lepturus	5.00	12	6.01
Lutjanus synagris	4.00	12	4.81
Lycengraulis grossidens	3.00	74	3.61
Trachinotus carolinus	2.80	2	3.37
Diapterus rhombeus	1.40	2	1.68
Rhizophronodon porosus	1.20	14	1.44
Scomberomorus cavalla	0.80	2	0.96
Acanthostracion quadricornis	0.80	4	0.96
Peprilus paru	0.40	2	0.48
Synodus poeyi	0.20	2	0.24
Selene apixii	0.20	2	0.24
Selena vomer	0.20	2	0.24
Total	83.20	100.00	

PROJECT STATION: 845
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7044
 TIME : 04:15 start stop duration
 LOG : 1900.40 1909.90 30 (min) Purpose code: 3
 FDEPTH: 57 56 Area code : 3
 DDEPTH: 57 56 GearCond.code: 1
 Validity code:
 Towing dir: 270° Wire out: 250 m Speed: 31 kn*10

Sorted: 23 Kg Total catch: 23.20 CATCH/HOUR: 46.40

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Lepophidium sp	8.00	1040	17.24
Saurida normani	6.80	892	14.66
Synodus poeyi	6.80	420	14.66
Prionotus punctatus	3.20	14	6.90
Lutjanus synagris	2.80	4	6.03
Loligo pealei	2.40	38	5.17
Hildebrandia flava	2.40	50	5.17
Sardinella aurita	2.40	12	5.17
Penaeus notialis	2.00	58	4.31
Shrimps, small, non comm.	1.80		3.88
Priacanthus aronatus	1.80	12	3.88
Sphyræna quachancho	1.60	2	3.45
Eucinostoma argenteus	0.90	12	1.94
Diapterus rhombeus	0.60	6	1.29
Serranus phoebe	0.60	32	1.29
Upeneus parvus	0.60	38	1.29
Ctenosciaena gracilicirrhus	0.30	0	0.65
Pristipomoides macrophthalmus	0.30	0	0.65
Chloroscombrus chrysurus	0.30	6	0.65
Trachurus lathami	0.30	6	0.65
Decapterus punctatus	0.30	12	0.65
Penaeus brasiliensis	0.20	10	0.43
Penaeus subtilis	0.20	8	0.43
Bregmaceros sp	0.00	44	
Diplecistrum blvittatum	0.00	6	
Porichthys pauciradiatus	0.00	62	
Prionotus stearnsi	0.00	18	
Total	46.60	100.44	

PROJECT STATION: 849
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1139 Long W 7123
 TIME : 13:10 start stop duration
 LOG : 1968.60 1970.30 30 (min) Purpose code: 3
 FDEPTH: 22 23 Area code : 3
 DDEPTH: 22 23 GearCond.code: 1
 Validity code:
 Towing dir: 230° Wire out: 100 m Speed: 30 kn*10

Sorted: 3 Kg Total catch: 43.07 CATCH/HOUR: 86.14

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Chirocentron bleekermanus	23.00	6900	26.70
Opisthonema oglinum	14.40	2218	16.72
Micropogonias furnieri	13.40	38	15.56
Trichurus lepturus	7.20	244	8.36
Anchoa filifera	5.76	1540	6.69
Scomberomorus cavalla	5.40	16	6.27
Lolliguncula brevis	4.32	576	5.02
Lutjanus synagris	3.40	14	3.95
Trichurus lepturus	3.00	6	3.40
Harengula jaguana	2.16	86	2.51
Opisthonema oglinum	1.20	6	1.39
Caranx hippos	1.00	2	1.16
Chloroscombrus chrysurus	0.70	10	0.81
Oligoplites saliens	0.60	2	0.70
Synodus poeyi	0.60	4	0.70
Pellona harroweri	0.00	28	
Total	86.14	100.02	

PROJECT STATION: 846
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1149 Long W 7047
 TIME : 06:40 start stop duration
 LOG : 1922.00 1922.40 0.40 (min) Purpose code: 3
 FDEPTH: 45 47 Area code : 3
 DDEPTH: 45 47 GearCond.code: 1
 Validity code:
 Towing dir: 360° Wire out: 200 m Speed: 13 kn*10

Sorted: 46 Kg Total catch: 265.70 CATCH/HOUR: 1062.80

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Anchoa filifera	387.20	154500	36.43
Sphyræna picudilla	374.00	2804	35.19
Chirocentron bleekermanus	104.40	60040	9.82
Chloroscombrus chrysurus	62.80	264	5.91
Selene apixii	55.20	332	5.19
Belar crumenophthalmus	20.80	156	1.96
Micropogonias furnieri	18.00	24	1.77
Scomberomorus cavalla	13.40	12	1.26
Peprilus paru	11.20	24	1.05
Scomberomorus brasiliensis	3.40	4	0.32
Penaeus notialis	3.20	112	0.30
Ophichthus parillis	2.40	24	0.23
Lepophidium profundorum	1.20	68	0.11
Synodus poeyi	1.20	88	0.11
Porichthys pauciradiatus	1.20	44	0.11
Opisthonema oglinum	1.20	24	0.11
Diplecistrum radiale	1.20	24	0.11
Symphurus diomedianus	0.00	24	
Syacium sp.	0.00	68	
Ctenosciaena gracilicirrhus	0.00	24	
Selene vomer	0.00	24	
Total	1062.80	99.98	

PROJECT STATION: 850
 DATE: 14/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1131 Long W 7129
 TIME : 14:55 start stop duration
 LOG : 1980.50 1982.00 1.50 (min) Purpose code: 3
 FDEPTH: 20 19 Area code : 3
 DDEPTH: 20 19 GearCond.code: 1
 Validity code:
 Towing dir: 210° Wire out: 100 m Speed: 30 kn*10

Sorted: 20 Kg Total catch: 113.25 CATCH/HOUR: 226.50

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP. NO.
Chloroscombrus chrysurus	129.50	1062	57.17
Scomberomorus cavalla	22.00	38	9.71
Rlopa saurus	18.00	18	7.95
Micropogonias furnieri	15.30	30	6.75
Sphyræna quachancho	10.00	16	4.42
Rhinoptera bonasus	7.00	2	3.09
Lutjanus synagris	6.20	6	2.74
Diapterus rhombeus	6.00	236	2.65
Opisthonema oglinum	5.50	16	2.43
Lolliguncula brevis	4.50	800	1.99
Synodus poeyi	1.50	6	0.66
Peprilus paru	1.00	6	0.44
Trichurus lepturus	0.00	14	
Etcheneis laucrates	0.00	6	
Total	226.50	100.00	

PROJECT STATION: 851
 DATE: 14/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1117 Long W 7127
 TIME : 17:00 start stop duration Purpose code: 3
 LOG : 1995.00 1997.00 1.40 Area code : 3
 FDEPTH: 13 13 GearCond.code: 3
 BDEPTH: 13 13 Validity code:
 Towing dir: 80° Wire out: 100 m Speed: 28 kn*10
 Sorted: 69 Kg Total catch: 424.05 CATCH/HOUR: 848.10

PROJECT STATION: 855
 DATE: 15/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1138 Long W 7026
 TIME : 20:20 start stop duration Purpose code: 1
 LOG : 2105.80 2107.50 1.70 Area code : 7
 FDEPTH: 15 15 GearCond.code:
 BDEPTH: 42 40 Validity code:
 Towing dir: 255° Wire out: 150 m Speed: 34 kn*10
 Sorted: 62 Kg Total catch: 224.60 CATCH/HOUR: 449.20

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Anchoa sp	192.60	22.71	22.71	
Trichurus lepturus	178.20	716	21.01	
Chirocentron bleekermanus	91.40	17842	10.70	
Pellona harroweri	82.60	32572	9.74	
Chloroscombrus chrysurus	75.40	496	8.09	539
Harengula jaguana	45.60	1926	5.38	
Micropogonias furnieri	42.60	94	5.02	540
Diapterus rhombus	36.30	826	4.28	
Opisthonema oglinum	25.80	286	3.04	
Scomberomorus brasiliensis	18.50	22	2.10	541
Oligoplites saurus	12.10	56	1.43	
Oligoplites palometa	12.10	34	1.43	
Peprilus paru	11.60	100	1.37	
Eleps saurus	8.40	6	0.99	
Sphyraena quachancho	4.40	4	0.52	
Cathorops spixii	3.70	4	0.44	
Lutjanus synagris	3.00	2	0.35	
Selene spixii	2.20	22	0.26	
Loligo sp	1.60	1100	0.19	
Catagraulis edentulus	0.00	1012		
Total		848.10	100.01	

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Opisthonema oglinum	324.80	4320	72.31	551
Anchoa hepsetus	81.20	45396	18.08	552
Sphyraena quachancho	20.00	28	4.45	
Sphyraena picudilla	10.80	36	2.40	
Scomberomorus cavalla	8.50	6	1.89	
Selar crumenophthalmus	2.40	22	0.53	
Chloroscombrus chrysurus	1.00	28	0.22	
Sardinella aurita	0.40	8	0.09	
Total		449.10	99.97	

PROJECT STATION: 856
 DATE: 15/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1135 Long W 7035
 TIME : 22:00 start stop duration Purpose code: 3
 LOG : 2114.10 2115.40 1.30 Area code : 7
 FDEPTH: 35 35 GearCond.code:
 BDEPTH: 35 35 Validity code:
 Towing dir: 254° Wire out: 150 m Speed: 26 kn*10
 Sorted: 58 Kg Total catch: 58.50 CATCH/HOUR: 117.00

PROJECT STATION: 852
 DATE: 14/ 9/80 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7113
 TIME : 19:25 start stop duration Purpose code: 3
 LOG : 2012.00 2013.10 0.30 Area code : 3
 FDEPTH: 15 15 GearCond.code: 9
 BDEPTH: 15 15 Validity code: 9
 Towing dir: 45° Wire out: 100 m Speed: 30 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Opisthonema oglinum	41.00	454	35.04	555
Anchoa hepsetus	11.00	1344	16.67	553
Cynoscion jamaicensis	14.60	54	12.48	554
Sphyraena picudilla	6.30	42	5.38	
Chloroscombrus chrysurus	6.10	134	5.21	556
Pomatomus saltatrix	5.00	12	4.27	
Chirocentron bleekermanus	4.70	1438	4.02	
Dagrus marinus	4.40	2	3.76	
Synodus foetens	3.30	16	2.82	
Sphyraena quachancho	3.00	4	2.56	
Conodon nobilis	2.00	6	1.71	
Lutjanus analis	1.70	2	1.45	
Eucinostomus argenteus	1.70	42	1.45	
Prionotus punctatus	0.70	10	0.60	
Sardinella aurita	0.70	10	0.60	
Priacanthus arenatus	0.60	2	0.51	
Loligo sp	0.40	62	0.34	
Ctenosciaena gracilicirrhus	0.30	12	0.26	
Porichthys pauciradiatus	0.20	16	0.17	
Synodus poeyi	0.10	14	0.09	
Diplectrum bivittatum	0.00	4		
Lepophidium profundorum	0.00	4		
Total		116.30	99.39	

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
NO CATCH	0.00			
NO CATCH	0.00			
Total				

PROJECT STATION: 853
 DATE: 15/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1120 Long W 7040
 TIME : 00:35 start stop duration Purpose code: 3
 LOG : 2044.90 2045.60 0.70 Area code : 7
 FDEPTH: 24 23 GearCond.code:
 BDEPTH: 24 23 Validity code:
 Towing dir: 260° Wire out: 100 m Speed: 19 kn*10
 Sorted: 22 Kg Total catch: 74.50 CATCH/HOUR: 223.50

PROJECT STATION: 857
 DATE: 15/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1147 Long W 7038
 TIME : 23:15 start stop duration Purpose code: 1
 LOG : 2128.30 2129.70 1.40 Area code : 7
 FDEPTH: 21 21 GearCond.code:
 BDEPTH: 40 40 Validity code:
 Towing dir: 270° Wire out: 175 m Speed: 28 kn*10
 Sorted: 112 Kg Total catch: 112.00 CATCH/HOUR: 224.00

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Anchoa filifera	54.60	22569	24.43	
Opisthonema oglinum	45.00	534	20.13	543
Chloroscombrus chrysurus	32.40	162	14.50	542
Opisthonema oglinum	23.40	2028	10.47	
Loliguncula brevis	19.50	1755	8.72	
Sphyraena quachancho	16.80	24	7.52	
Sphyraena picudilla	15.00	126	6.71	544
Chirocentron bleekermanus	7.80	7176	3.49	
Scomberomorus brasiliensis	6.00	6	2.68	
Caranx hippos	1.80	6	0.81	
Oligoplites palometa	1.20	6	0.54	
Harengula jaguana	0.00	39		
Total		223.50	100.00	

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Opisthonema oglinum	224.00	4032	100.00	557
Total		224.00	100.00	

PROJECT STATION: 854
 DATE: 15/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1130 Long W 7024
 TIME : 19:00 start stop duration Purpose code: 3
 LOG : 2100.70 2102.20 1.50 Area code : 7
 FDEPTH: 42 42 GearCond.code:
 BDEPTH: 42 42 Validity code:
 Towing dir: 254° Wire out: 200 m Speed: 28 kn*10
 Sorted: 22 Kg Total catch: 123.50 CATCH/HOUR: 247.00

PROJECT STATION: 858
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1148 Long W 7040
 TIME : 00:40 start stop duration Purpose code: 3
 LOG : 2131.00 2132.70 1.70 Area code : 7
 FDEPTH: 46 48 GearCond.code:
 BDEPTH: 46 48 Validity code:
 Towing dir: 270° Wire out: 250 m Speed: 27 kn*10
 Sorted: 5 Kg Total catch: 70.36 CATCH/HOUR: 140.72

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Chloroscombrus chrysurus	132.40	5896	53.60	545
Cynoscion leiarchus	16.00	14	6.48	549
Lutjanus analis	13.70	18	5.55	550
Lepophidium profundorum	12.00	624	4.86	
Synodus poeyi	10.80	936	4.37	
Sphyraena quachancho	9.70	16	3.93	
Diplectrum bivittatum	6.00	256	2.43	
Pomatomus saltatrix	5.70	14	2.31	
Prionotus punctatus	5.10	14	2.06	
Orthopristis ruber	3.70	10	1.50	
Sardinella aurita	3.60	64	1.46	
Micropogonias furnieri	2.70	2	1.09	
Cynoscion jamaicensis	2.70	6	1.09	
Synodus foetens	2.40	16	0.97	
Prionotus punctatus	2.00	80	0.81	
Peprilus paru	1.70	2	0.69	
Hemicirrhus americanus	1.70	6	0.69	
Eucinostomus argenteus	1.60	72	0.65	
Loligo palei	1.60	152	0.65	
Loligo plei	1.60	64	0.65	
Porichthys pauciradiatus	1.60	104	0.65	
Prionotus stearnsi	1.60	128	0.65	
Hemiramphus balao	1.30	2	0.53	
Opisthonema oglinum	1.20	16	0.49	
Penaeus brasiliensis	0.90	24	0.36	546
Paralichthys tropicus	0.80	8	0.32	
Scomber japonicus	0.80	8	0.32	
Penaeus subtilis	0.70	28	0.28	547
Penaeus notialis	0.60	12	0.24	548
Ctenosciaena gracilicirrhus	0.40	40	0.16	
Upeneus parvus	0.40	32	0.16	
Peprilus paru	0.00	8		
Diplectrum radiale	0.00	8		
Serranus atrobranchus	0.00	16		
Total		247.00	100.00	

SPECIES	weight	CATCH/HOUR numbers	% OF TOT. C	SAMP.NO.
Lepophidium profundorum	26.40	1584	18.76	
Synodus poeyi	26.40	2306	18.76	
Chloroscombrus chrysurus	13.00	174	9.24	559
Prionotus punctatus	12.32	18	8.75	
Micropogonias furnieri	11.20	10	7.98	
Shrimps, small, non comm.	8.80	2640	6.25	
Prionotus punctatus	7.00	28	4.97	
Opisthonema oglinum	6.00	66	4.26	558
Lutjanus analis	5.00	6	3.55	
Lutjanus synagris	3.52	10	2.50	
Synodus poeyi	3.20	14	2.27	
Ctenosciaena gracilicirrhus	2.64	52	1.88	
Porichthys pauciradiatus	2.64	300	1.88	
Hildebrandia flava	1.76	246	1.25	
Eucinostomus argenteus	1.76	36	1.25	
Penaeus notialis	1.00	10	0.71	
Penaeus subtilis	1.00	10	0.71	
Lutjanus griseus	1.00	2	0.71	
Rhomboplites aurorubens	0.88	18	0.63	
Upeneus parvus	0.88	18	0.63	
Anchoa filifera	0.88	176	0.63	
Pristipomoides macrophthalmus	0.88	106	0.63	
Diplectrum bivittatum	0.88	36	0.63	
Trachurus lathami	0.88	18	0.63	
Ocyurus chrysurus	0.80	2	0.57	
Serranus atrobranchus	0.00	18		
Bregmaceros sp.	0.00	88		
Total		140.72	100.01	

PROJECT STATION: 859
 DATE: 16/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1149 Long W 7051
 start stop duration
 TIME : 02:30 03:00 30 (min) Purpose code: 1
 LOG : 2141.70 2143.00 1.30 Area code : 7
 FDEPTH: 20 20 GearCond.code:
 BDEPTH: 40 36 Validity code:
 Towing dir: 270° Wire out: 100 m Speed: 28 kn*10
 Sorted: 33 Kg Total catch: 152.45 CATCH/HOUR: 304.90

PROJECT STATION: 863
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1215 Long W 7002
 start stop duration
 TIME : 11:15 11:45 30 (min) Purpose code: 3
 LOG : 2193.50 2194.70 1.20 Area code : 8
 FDEPTH: 30 30 GearCond.code:
 BDEPTH: 30 30 Validity code:
 Towing dir: 50° Wire out: 150 m Speed: 23 kn*10
 Sorted: 63 Kg Total catch: 63.55 CATCH/HOUR: 127.10

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Chirocentrodon bleekeriianus	165.60	120888	54.31 560
Anchoa filifera	49.40	35568	16.20 561
Opisthonema oglinum	36.00	352	11.81
Trichiurus lepturus	24.20	100	7.94
Sphyræna quachancho	18.00	18	5.90
Scorberomorus brasiliensis	8.10	10	2.66
Peprilus paru	3.60	18	1.18
Total	304.90	100.00	

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Lutjanus synagris	45.60	118	35.80 574
Balistas capricus	13.80	28	10.86
Pracanthus arenatus	12.20	80	9.60 575
Calamus penna	7.00	52	5.51
Eucinostomus argentatus	7.00	136	5.51
Lagocephalus laevigatus	7.00	14	5.51
Selene vomer	4.60	6	3.62
Lutjanus analis	4.40	6	3.46
Caranx crysos	4.20	4	3.30
Haliastur vetula	4.20	10	3.30
Scorberomorus brasiliensis	3.40	4	2.68
Pomacanthus paru	2.20	18	1.73
Scorberomorus cavalla	2.00	2	1.57
Sphyræna quachancho	1.60	2	1.26
Opisthonema oglinum	1.60	8	1.26
Albula vulpes	1.00	2	0.79
Echeneis naucrates	1.00	2	0.79
Chloroscormus chrysurus	1.00	18	0.79
Fistularia potimba	0.80	2	0.63
Sphyræna picudilla	0.80	2	0.63
Selar crumenophthalmus	0.60	6	0.47
Rhomboplites aurorubens	0.30	2	0.24
Chilomycterus antillarum	0.20	2	0.16
Acanthostracion quadricornis	0.20	2	0.16
Hemipteronotus novacula	0.20	2	0.16
Diplacrum formosum	0.20	2	0.16
Total	127.10	100.03	

PROJECT STATION: 860
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7054
 start stop duration
 TIME : 03:45 04:15 30 (min) Purpose code: 3
 LOG : 2144.50 2146.20 1.70 Area code : 7
 FDEPTH: 31 23 GearCond.code:
 BDEPTH: 31 23 Validity code:
 Towing dir: 270° Wire out: 125 m Speed: 35 kn*10
 Sorted: 36 Kg Total catch: 99.80 CATCH/HOUR: 199.60

PROJECT STATION: 864
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1224 Long W 7100
 start stop duration
 TIME : 13:05 13:35 30 (min) Purpose code: 3
 LOG : 2204.20 2205.70 1.50 Area code : 8
 FDEPTH: 51 52 GearCond.code:
 BDEPTH: 51 52 Validity code:
 Towing dir: 230° Wire out: 250 m Speed: 33 kn*10
 Sorted: 93 Kg Total catch: 93.10 CATCH/HOUR: 186.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Chirocentrodon bleekeriianus	120.00	31200	60.12 562
Trichiurus lepturus	30.00	130	15.03
Chloroscormus chrysurus	10.00	36	5.01
Diapterus olisthostomus	9.00	16	4.51
Opisthonema oglinum	5.00	32	2.51
Hemiscaranx amblyrhynchus	5.00	10	2.51
Sphyræna quachancho	4.00	4	2.51
Scorberomorus brasiliensis	4.00	6	2.00
Cynoscion leaichus	3.00	2	1.50
Micropogonias furnieri	2.60	4	1.30
Cynoscion jamaicensis	2.00	20	1.00
Macrodon ancylodens	1.60	2	0.80
Selene spixii	1.50	10	0.75
Eucinostomus gula	0.50	6	0.25
Penaeus schmitti	0.40	4	0.20
Total	199.60	100.00	

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Lutjanus analis	53.00	26	28.46 576
Sardinella aurita	52.00	898	27.93 577
Rhomboplites aurorubens	13.40	72	7.20 578
Eucinostomus argentatus	13.40	368	7.20
Lutjanus synagris	8.00	12	4.30
Sphyræna picudilla	7.40	32	3.97
Scorberomorus cavalla	7.00	2	3.76
Upeneus parvus	6.00	320	3.22
Calamus ponnatula	6.00	12	3.22
Lachnoilaimus maximus	5.50	2	2.95
Calamus penna	5.00	10	2.69
Ocyurus chrysurus	4.70	8	2.52
Loligo pealei	2.00	244	1.07
Pracanthus arenatus	1.20	12	0.64
Synodus poeyi	0.80	4	0.43
Diplacrum bivittatum	0.40	4	0.21
Trachurus lathami	0.40	4	0.21
Total	186.20	99.98	

PROJECT STATION: 861
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1156 Long W 7055
 start stop duration
 TIME : 06:30 07:00 30 (min) Purpose code: 3
 LOG : 2161.00 2162.80 1.80 Area code : 7
 FDEPTH: 45 37 GearCond.code:
 BDEPTH: 45 37 Validity code:
 Towing dir: 240° Wire out: 250 m Speed: 32 kn*10
 Sorted: 64 Kg Total catch: 194.10 CATCH/HOUR: 388.20

PROJECT STATION: 865
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1230 Long W 7101
 start stop duration
 TIME : 15:00 15:30 30 (min) Purpose code: 3
 LOG : 2215.10 2216.60 1.50 Area code : 8
 FDEPTH: 66 70 GearCond.code:
 BDEPTH: 66 70 Validity code:
 Towing dir: 280° Wire out: 300 m Speed: 29 kn*10
 Sorted: 20 Kg Total catch: 20.45 CATCH/HOUR: 40.90

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Chirocentrodon bleekeriianus	81.60	72696	21.02 563
Anchoa filifera	67.20	46482	17.31 564
Chloroscormus chrysurus	59.10	534	15.22 566
Cynoscion leaichus	42.00	48	10.82 568
Micropogonias furnieri	22.50	48	5.29
Selene spixii	21.30	252	5.49 565
Opisthonema oglinum	21.00	168	5.41
Lolliguncula sp	19.20	3168	4.95
Sphyræna picudilla	19.20	138	4.95 567
Trichiurus lepturus	14.70	294	3.79
Scorberomorus brasiliensis	8.10	12	2.09
Lutjanus analis	6.30	6	1.62
Peprilus paru	2.40	12	0.62
Cynoscion jamaicensis	2.10	30	0.54
Albula vulpes	1.50	6	0.39
Synodus foetens	0.00	6	
Eucinostomus melanopterus	0.00	6	
Total	388.20	100.02	

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Upeneus parvus	9.20	594	22.49
Trachurus lathami	6.60	264	16.14 579
Loligo pealei	5.20	300	12.71
Rhomboplites aurorubens	3.60	42	8.80 580
Pracanthus arenatus	3.40	28	8.31
Lutjanus purpureus	3.00	2	7.33
Eucinostomus argentatus	2.60	68	6.36 581
Lutjanus synagris	2.00	2	4.89
Fistularia potimba	1.40	6	3.42
Dactylopterus volitans	1.20	2	2.93
Decapterus punctatus	1.20	24	2.93
Pristigaster macrophthalmus	1.00	20	2.44
Diplacrum bivittatum	0.20	4	0.49
Selar crumenophthalmus	0.20	2	0.49
Scorber japonicus	0.10	2	0.24
Total	40.90	99.97	

PROJECT STATION: 862
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1210 Long W 7058
 start stop duration
 TIME : 09:50 10:20 30 (min) Purpose code: 3
 LOG : 2185.30 2186.70 1.40 Area code : 0
 FDEPTH: 50 45 GearCond.code:
 BDEPTH: 50 45 Validity code:
 Towing dir: 300° Wire out: 250 m Speed: 27 kn*10
 Sorted: 44 Kg Total catch: 44.75 CATCH/HOUR: 89.50

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP. NO.
Lutjanus synagris	15.20	20	16.90 569
Lutjanus analis	12.60	2	14.00
Selene vomer	8.40	10	9.39
Scorberomorus brasiliensis	8.20	10	9.16
Chloroscormus chrysurus	7.40	132	0.27 571
Lutjanus purpureus	7.00	24	7.82 570
Loligo sp	6.00	3210	6.70
Upeneus parvus	5.40	428	6.03 572
Anchoviella lepidentostole	5.00	626	5.59 573
Synodus foetens	4.40	20	4.92
Sphyræna quachancho	3.20	4	3.58
Eucinostomus argentatus	2.20	86	2.46
Sphyræna picudilla	2.00	20	2.23
Opisthonema oglinum	1.00	62	1.12
Trichiurus lepturus	0.80	8	0.89
Diplacrum bivittatum	0.40	12	0.45
Pracanthus arenatus	0.30	2	0.34
Penaeus notialis	0.00	2	
Trachurus lathami	0.00	2	
Sardinella aurita	0.00	2	
Total	89.50	100.01	

PROJECT STATION: 866
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1230
 start stop duration Long W 7109
 TIME : 16:40 17:10 30 (min) Purpose code: 3
 LOG : 2225.80 2227.30 1.50 Area code : 8
 FDEPTH: 63 62 GearCond.code:
 BDEPTH: 63 62 Validity code:
 Towing dir: 195° Wire out: 325 m Speed: 32 kn*10
 Sorted: 83 Kg Total catch: 83.95 CATCH/HOUR: 167.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus purpureus	85.80	100	583
Priacanthus arenatus	20.00	62	582
Eucinostomus argenteus	11.00	374	6.55
Balistes votula	8.00	12	5.24
Lutjanus synagris	7.00	28	4.17
Upeneus parvus	5.60	372	3.34
Calamus pennatula	4.20	8	2.50
Pristipomoides macrophthalmus	4.00	32	2.38
Sphyræna quachancho	3.00	6	1.79
Trachurus lathami	3.00	180	1.79
Rhomboplites aurorubens	2.00	78	1.19
Selar crumenophthalmus	2.00	70	1.19
Fistularia potimba	1.80	14	1.07
Mustelus canis	1.60	2	0.95
Uraspis secunda	1.60	2	0.95
Caulolatilus intermedius	1.20	10	0.71
Haemulon steindachneri	1.00	6	0.60
Haemulon boschmau	0.80	20	0.40
Pagrus pagrus	0.80	2	0.48
Ocyurus chrysurus	0.70	4	0.42
Dactylopterus volitans	0.60	2	0.36
Loligo pealei	0.60	30	0.36
Saurida normani	0.30	4	0.18
Pseudupeneus maculatus	0.30	4	0.18
Scorpaenopsis japonicus	0.20	2	0.12
Diplectrum bivittatum	0.00	12	
Prionotus stearnsi	0.00	2	
Chaetodon sp	0.00	4	
Penaeus notialis	0.00	2	
Synodus poeyi	0.00	6	
Synodus foetens	0.00	2	
Total	167.90	100.01	

PROJECT STATION: 867
 DATE: 16/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1232
 start stop duration Long W 7118
 TIME : 20:30 21:00 30 (min) Purpose code: 3
 LOG : 2245.20 2246.20 1.00 Area code : 8
 FDEPTH: 65 65 GearCond.code:
 BDEPTH: 65 65 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 18 kn*10
 Sorted: 9 Kg Total catch: 67.47 CATCH/HOUR: 134.94

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Pristipomoides macrophthalmus	60.00	4434	44.46
Opisthonema oglinum	22.80	858	16.90
Penaeus notialis	9.60	146	7.11
Hoplunnis sp	8.58	336	6.36
Upeneus parvus	7.00	390	5.78
Lepophidium profundorum	5.72	658	4.24
Prionotus stearnsi	4.20	314	3.17
Eucinostomus argenteus	3.00	78	2.22
Synodus poeyi	2.86	800	2.12
Hildebrandia flava	2.86	28	2.12
Synodus foetens	2.70	24	2.00
Priacanthus arenatus	1.80	14	1.33
Serranus atrobanchus	1.42	336	1.05
Anchoa mitchellii	1.42	144	1.05
Penaeus brasiliensis	0.10	14	0.07
Etruscanus teres	0.00	6	
APOGONIDAE	0.00	06	
Porichthys pauciradiatus	0.00	86	
Trachurus lathami	0.00	28	
SOLMOGASTERIDAE	0.00	18	
Total	134.94	99.98	

PROJECT STATION: 868
 DATE: 16/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1234
 start stop duration Long W 7122
 TIME : 21:45 22:15 30 (min) Purpose code: 1
 LOG : 2248.30 2249.80 1.50 Area code : 8
 FDEPTH: 35 35 GearCond.code:
 BDEPTH: 64 62 Validity code:
 Towing dir: 270° Wire out: 150 m Speed: 27 kn*10
 Sorted: 24 Kg Total catch: 102.60 CATCH/HOUR: 205.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Opisthonema oglinum	188.80	2088	91.83
Trichurus lepturus	9.20	24	4.47
MYCTOPHIDAE	4.00	1520	1.95
Anchoa mitchellii	2.40	424	1.17
Selar crumenophthalmus	0.80	64	0.39
Synodus poeyi	0.40	192	0.19
Porichthys pauciradiatus	0.00	8	
Decapterus punctatus	0.00	16	
Total	205.60	100.00	

PROJECT STATION: 869
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1236
 start stop duration Long W 7127
 TIME : 03:50 04:20 30 (min) Purpose code: 3
 LOG : 2276.90 2277.70 0.80 Area code : 8
 FDEPTH: 475 493 GearCond.code:
 BDEPTH: 475 493 Validity code:
 Towing dir: 250° Wire out: 1400 m Speed: 17 kn*10
 Sorted: 6 Kg Total catch: 0.68 CATCH/HOUR: 1.36

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Aristaemorpha foliacea	0.50	20	36.76
Steindachneria argenta	0.20	8	14.71
GONOSTOMATIDAE	0.20	26	14.71
Exhyppolyasata ophioroides	0.20	86	14.71
MYCTOPHIDAE	0.10	30	7.35
PANDALIDAE	0.10	38	7.35
PANDALIDAE	0.06	62	4.41
Ornithoteutis antillarum	0.00	8	
Benthodesmus tenuis	0.00	4	
Argyropolocus neoleucatus	0.00	12	
PASIPHARIDAE	0.00	4	
Plecticus robustus	0.00	4	
Total	1.36	100.00	

PROJECT STATION: 870
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1233
 start stop duration Long W 7130
 TIME : 05:50 06:20 30 (min) Purpose code: 3
 LOG : 2285.00 2285.90 0.90 Area code : 8
 FDEPTH: 71 70 GearCond.code:
 BDEPTH: 71 70 Validity code:
 Towing dir: 255° Wire out: 350 m Speed: 19 kn*10
 Sorted: 23 Kg Total catch: 23.00 CATCH/HOUR: 46.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trachurus lathami	11.20	752	24.35
Lutjanus synagris	8.00	10	17.39
Scorpaenopsis japonicus	7.00	120	16.96
Lutjanus purpureus	6.20	12	13.48
Mustelus canis	5.40	4	11.74
Priacanthus arenatus	2.00	4	4.35
Rhomboplites aurorubens	1.60	6	3.48
Uraspis secunda	1.00	2	2.17
Caulolatilus intermedius	0.60	2	1.30
Calamus pennatula	0.60	2	1.30
Pristipomoides macrophthalmus	0.60	4	1.30
Eucinostomus argenteus	0.50	10	1.09
Selar crumenophthalmus	0.40	4	0.87
Etruscanus teres	0.10	8	0.22
EXOCOETIDAE	0.00	2	
Total	46.00	100.00	

PROJECT STATION: 871
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1232
 start stop duration Long W 7137
 TIME : 07:25 07:35 10 (min) Purpose code: 3
 LOG : 2293.30 2293.60 0.30 Area code : 8
 FDEPTH: 67 86 GearCond.code:
 BDEPTH: 67 86 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 20 kn*10
 Sorted: 24 Kg Total catch: 24.75 CATCH/HOUR: 148.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Rhomboplites aurorubens	58.20	426	39.19
Lachnolaimus maximus	35.40	12	23.84
Lutjanus synagris	9.60	12	6.46
Pristipomoides macrophthalmus	9.00	96	6.06
Trachurus lathami	8.70	516	5.86
Calamus pennatula	7.80	42	5.25
Lutjanus analis	7.00	12	5.25
Priacanthus arenatus	6.90	42	4.65
Upeneus parvus	3.00	96	2.02
Lutjanus purpureus	1.20	6	0.81
Loligo pealei	0.30	18	0.20
Caulolatilus intermedius	0.30	6	0.20
Loligo plei	0.00	6	
Saurida normani	0.00	6	
Diplectrum bivittatum	0.00	12	
Total	148.20	99.79	

PROJECT STATION: 872
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1228
 start stop duration Long W 7143
 TIME : 09:00 09:30 30 (min) Purpose code: 3
 LOG : 2304.80 2306.00 1.20 Area code : 8
 FDEPTH: 34 38 GearCond.code:
 BDEPTH: 34 38 Validity code:
 Towing dir: 235° Wire out: 150 m Speed: 25 kn*10
 Sorted: 26 Kg Total catch: 179.60 CATCH/HOUR: 359.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Carcharias porosus	115.00	86	32.02
Chirocentrodon bleekeri	94.80	44364	26.39
Solene spixii	51.00	696	14.20
Lutjanus analis	35.60	10	9.91
Micropogonias furnieri	31.00	52	8.63
Solene vomer	11.20	12	3.12
Pomatomus saltatrix	6.30	6	1.75
Lactophrys trigonus	3.00	6	0.84
Cynoscion jamaicensis	2.10	18	0.50
Upeneus parvus	1.80	84	0.50
Eucinostomus argenteus	1.50	126	0.42
Lutjanus synagris	1.40	2	0.39
Trachurus lathami	1.20	78	0.33
Penaeus notialis	0.90	18	0.25
Lutjanus synagris	0.60	6	0.17
Diplectrum bivittatum	0.60	42	0.17
Sphyræna picudilla	0.60	12	0.17
Chloroscombrus chrysurus	0.60	30	0.17
Penaeus brasiliensis	0.00	12	
Trichurus lepturus	0.00	12	
Total	359.20	100.01	

PROJECT STATION: 873
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1227
 start stop duration Long W 7150
 TIME : 10:50 11:00 10 (min) Purpose code: 3
 LOG : 2316.70 2317.00 0.30 Area code : 8
 FDEPTH: 73 75 GearCond.code:
 BDEPTH: 73 75 Validity code:
 Towing dir: 237° Wire out: 400 m Speed: 30 kn*10
 Sorted: 36 Kg Total catch: 36.25 CATCH/HOUR: 217.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Trachurus lathami	145.80	60	67.03
Lutjanus purpureus	25.80	24	11.86
Rhomboplites aurorubens	10.20	120	4.69
Haemulon steindachneri	9.00	90	4.14
Eucinostomus argenteus	7.20	144	3.31
Pristipomoides macrophthalmus	6.00	336	2.76
Saurida normani	3.90	60	1.79
Calamus pennatula	3.60	24	1.66
Lutjanus synagris	3.00	6	1.38
Upeneus parvus	3.00	222	1.38
Serranus atrobanchus	0.00	24	
Total	217.50	100.00	

PROJECT STATION: 874
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1226 Long W 7154
 start stop duration
 TIME : 11:55 12:25 30 (min) Purpose code: 3
 LOG : 2323.60 2324.60 1.00 Area code : 0
 FDEPTH: 67 73 GearCond.code:
 BDEPTH: 67 73 Validity code:
 Towing dir: 270° Wire out: 350 m Speed: 16 kn*10

Sorted: 30 Kg Total catch: 242.42 CATCH/HOUR: 484.84

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Trachurus lathami	234.00	40.26	602
Lutjanus purpurus	152.00	31.35	601
Mustelus canis	16.00	3.30	
Lachnolaimus maximus	12.00	2.48	
Alectia oiliaris	12.00	2.48	
Pagrus pagrus	11.70	2.41	
Calamus pennatula	9.00	1.86	
Lutjanus synagris	6.00	1.24	
Lutjanus vivanus	5.70	1.10	
Rhomboplites aurorubens	4.50	0.93	
Loligo pealei	4.50	0.93	
Pristipomoides macrophthalmus	3.60	0.74	
Eucinostomus argenteus	3.60	0.74	
Upeneus parvus	2.70	0.56	
Haemulon boschmae	1.00	0.37	
Seriola dumerilii	1.60	0.33	
Priacanthus arenatus	1.20	0.25	
Decapterus punctatus	0.90	0.19	
Sardinella aurita	0.90	0.19	
Decapterus macarellus	0.44	0.09	
Etrumeus teros	0.44	0.09	
Scomber japonicus	0.26	0.05	
Total	484.84	100.02	

PROJECT STATION: 875
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1222 Long W 7159
 start stop duration
 TIME : 14:10 14:40 30 (min) Purpose code: 3
 LOG : 2330.20 2339.50 1.30 Area code : 0
 FDEPTH: 52 56 GearCond.code:
 BDEPTH: 52 56 Validity code:
 Towing dir: 240° Wire out: 250 m Speed: 23 kn*10

Sorted: 7 Kg Total catch: 69.90 CATCH/HOUR: 139.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Sardinella aurita	36.00	25.75	606
Lutjanus synagris	30.40	21.75	603
Lutjanus analis	23.60	16.88	604
Decapterus punctatus	10.40	7.44	607
Lachnolaimus maximus	8.40	6.01	
Rhomboplites aurorubens	7.00	5.01	605
Ocyurus chrysurus	6.00	4.29	
Etrumeus teros	5.60	4.01	608
Opisthonema oglinum	4.00	2.86	
Lutjanus purpurus	4.00	2.86	
Decapterus macarellus	2.40	1.72	
Loligo pealei	1.60	1.14	
Eucinostomus argenteus	0.40	0.29	
Total	139.80	100.01	

PROJECT STATION: 876
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1220 Long W 7205
 start stop duration
 TIME : 16:50 17:20 30 (min) Purpose code: 3
 LOG : 2355.60 2358.00 1.40 Area code : 8
 FDEPTH: 66 67 GearCond.code:
 BDEPTH: 66 67 Validity code:
 Towing dir: 225° Wire out: 300 m Speed: 29 kn*10

Sorted: 26 Kg Total catch: 88.65 CATCH/HOUR: 177.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Selar crumenophthalmus	44.00	24.82	609
Calamus pennatula	21.20	11.96	
Sphyraena picudilla	10.50	10.43	611
Lutjanus purpurus	14.20	8.01	614
Eucinostomus argenteus	14.00	7.90	
Priacanthus arenatus	13.40	7.56	615
Lutjanus synagris	10.50	5.92	
Decapterus macarellus	8.00	4.51	612
Trachurus lathami	8.00	4.51	610
Sardinella aurita	6.00	3.38	613
Scomber japonicus	5.50	3.10	
Rhomboplites aurorubens	3.60	2.03	
Pristipomoides macrophthalmus	3.40	1.92	
Decapterus punctatus	2.50	1.41	
Loligo plei	1.50	0.85	
Haemulon boschmae	1.00	0.56	
Saurida normani	0.80	0.45	
Upeneus parvus	0.50	0.28	
Haemulon aurolineatum	0.50	0.28	
Etrumeus teros	0.20	0.11	
Synodus poeyi	0.00	0	
Diplacrum bivittatum	0.00	0	
Total	177.30	99.99	

PROJECT STATION: 877
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1219 Long W 7212
 start stop duration
 TIME : 18:50 19:20 30 (min) Purpose code: 3
 LOG : 2369.10 2370.10 1.00 Area code : 0
 FDEPTH: 71 71 GearCond.code:
 BDEPTH: 71 71 Validity code:
 Towing dir: 260° Wire out: 350 m Speed: 21 kn*10

Sorted: 23 Kg Total catch: 99.95 CATCH/HOUR: 199.90

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Haemulon aurolineatum	91.20	45.62	616
Calamus pennatula	20.00	10.01	
Eucinostomus argenteus	17.20	8.60	
Rhomboplites aurorubens	16.00	8.00	617
Pristipomoides macrophthalmus	9.60	4.80	
Upeneus parvus	8.00	4.00	
Mustelus canis	7.80	3.90	
Haemulon boschmae	4.80	2.40	
Lutjanus synagris	2.80	1.40	
Sycaium micurum	2.80	0.88	
Trachurus lathami	2.80	1.40	
Scomber japonicus	2.40	1.20	
Penaeus brasiliensis	1.60	0.80	
Synodus foetens	1.60	0.80	
Pistularia petimba	1.60	0.80	
Trichurus lepturus	1.60	0.80	
Pseudopomus maculatus	1.60	0.80	
Seriola rivoliana	1.30	0.65	
Priacanthus arenatus	1.20	0.60	
HOLOCENTRIDAE	0.80	0.40	
Diplacrum bivittatum	0.80	0.40	
APOGONIDAE	0.40	0.20	
Dactylopterus volitans	0.40	0.20	
Chaetodon sp	0.00	0	
Lepophidium sp	0.00	0	
Mullidichthys martinicus	0.00	0	
Total	198.30	99.18	

PROJECT STATION: 870
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1224 Long W 7215
 start stop duration
 TIME : 20:35 21:15 40 (min) Purpose code: 3
 LOG : 2378.30 2379.30 1.00 Area code : 8
 FDEPTH: 298 297 GearCond.code:
 BDEPTH: 298 297 Validity code:
 Towing dir: 245° Wire out: 1050 m Speed: 12 kn*10

Sorted: 23 Kg Total catch: 72.50 CATCH/HOUR: 106.75

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Polymixia lowei	63.90	50.76	
Promethichthys prometheus	8.33	7.66	
Synagrops sp.	6.53	6.00	
Miscellaneous fish	4.50	4.14	
Ariomma melanum	2.70	2.48	
Mustelus canis	2.10	1.93	
MACRURIDAE	2.03	1.87	
Argentina sp.	1.80	1.66	
Lepophidium profundorum	1.80	1.66	
Plecticus robustus	1.58	1.45	618
Saurida normani	1.58	1.45	
Illex coindetti	1.35	1.24	
Pontinus longispinis	1.35	1.24	
LOBNIIDAE	1.13	1.04	
Plesionika edwardsii	0.90	0.83	
Shrimps, small, non comm.	0.90	0.83	
Neomuraeus halao	0.90	0.83	
Peristedion sp	0.90	0.83	
Xenopops ocellata	0.90	0.83	
Steindachneria argenta	0.90	0.83	
Parapneustes sp	0.60	0.56	619
Antigonia combata	0.45	0.41	
Peristedion miniatum	0.45	0.41	
Lepidopus caudatus	0.45	0.41	
Ornithoteutis antillarum	0.23	0.21	
Squilla sp	0.23	0.21	
MYCTOPHIDAE	0.23	0.21	
EXOCOETIDAE	0.00	0	
PECCEI	0.00	0	
Total	108.80	100.05	

PROJECT STATION: 879
 DATE: 17/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1229 Long W 7217
 start stop duration
 TIME : 22:35 23:25 60 (min) Purpose code: 3
 LOG : 2306.60 2307.00 1.20 Area code : 8
 FDEPTH: 407 435 GearCond.code:
 BDEPTH: 407 435 Validity code:
 Towing dir: 9° Wire out: 1250 m Speed: 15 kn*10

Sorted: 24 Kg Total catch: 142.45 CATCH/HOUR: 142.45

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
Steindachneria argenta	79.75	55.98	
Benthodesmus tenuis	27.50	19.31	
Polymixia lowei	9.30	6.53	
PENNAIDAE	7.00	4.91	621
Coolerichthys caribbaeus	6.60	4.63	
Argentina sp.	1.90	1.33	
Peristedion equadorensis	1.65	1.16	
Synagrops bellus	1.65	1.16	
Cyttopsis roseus	1.65	1.16	
Argyropelecus aculeatus	1.65	1.16	
MYCTOPHIDAE	1.10	0.77	
GONOSTOMATIDAE	0.80	0.56	
Xenolepichthys daigleishi	0.80	0.56	
Aristaeomorpha sp	0.80	0.56	620
Plesionika edwardsianus	0.20	0.14	
Plecticus robustus	0.10	0.07	622
Etmopterus sp	0.00	0	
Hoplunnis sp	0.00	0	
Peristedion sp	0.00	0	
Hollandia hollandia	0.00	0	
Total	142.45	99.99	

PROJECT STATION: 880
 DATE: 10/9/88 GEAR TYPE: FT No:2 POSITION: Lat N 1218 Long W 7222
 TIME : 01:15 01:45 30 (min) Purpose code: 1
 LOG : 2396.40 2397.00 1.40 Area code : 8
 FDEPTH: 45 45 GearCond.code: 8
 BDEPTH: 72 73 Validity code:
 Towing dir: 240° Wire out: 150 m Speed: 29 kn*10
 Sorted: 15 Kg Total catch: 15.05 CATCH/HOUR: 30.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Decapterus tabl	20.00	104	66.45	623
Sardinella aurita	4.00	196	13.29	624
Selar crumenophthalmus	3.00	20	9.97	
Decapterus macarellus	2.40	176	7.97	625
Decapterus punctatus	0.60	58	1.99	
Etrumeus teres	0.10	2	0.33	
Scomber japonicus	0.00			
Total	30.10		100.00	

PROJECT STATION: 881
 DATE: 10/9/88 GEAR TYPE: BT No:1 POSITION: Lat 1213 Long 7218
 TIME : 03:15 03:45 30 (min) Purpose code: 3
 LOG : 2407.90 2409.20 1.30 Area code : 8
 FDEPTH: 55 56 GearCond.code: 8
 BDEPTH: 55 56 Validity code:
 Towing dir: 240° Wire out: 250 m Speed: 28 kn*10
 Sorted: 12 Kg Total catch: 70.30 CATCH/HOUR: 140.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	28.00	872	19.91	
Panesus brasiliensis	16.00	976	11.38	627
Lutjanus synagris	13.40	34	9.53	626
Lutjanus purpureus	10.00	2	7.68	
Upeneus parvus	9.60	576	6.83	
Eucinostomus argenteus	9.60	536	6.03	
Pristipomoides macrophthalmaus	4.80	128	3.41	
Syacium microrum	4.00	24	2.84	
Rhomboplites aurorubens	4.00	128	2.84	
Sphoeroides sp	4.00	40	2.84	
Sphyræna quachancho	3.60	24	2.56	
Lepophidium pheromystax	3.20	104	2.28	
Dactylopterus volitans	2.80	104	1.99	
Calamus pennatula	2.00	16	1.42	
Opisthonema oglinum	2.00	16	1.42	
Decapterus macarellus	2.00	120	1.42	
Serranus phoebe	2.00	200	1.42	
Priacanthus arenatus	2.00	6	1.42	
Cyclopssetta chittendeni	1.60	8	1.14	
Mulloidichthys martinicus	1.60	48	1.14	
Diplectrum bivittatum	1.60	112	1.14	
Loligo plei	1.60	40	1.14	
Aluterus monoceros	1.20	40	0.85	
Pseudupeneus maculatus	1.20	48	0.85	
Synodus foetens	1.20	104	0.85	
AFCONIDAE	1.20	136	0.85	
Trachinocephalus myops	0.80	8	0.57	
Lepophidium profundorum	0.80	16	0.57	
Haemulon steindachneri	0.80	8	0.57	
Sardinella aurita	0.80	24	0.57	
Haemulon boschmae	0.80	40	0.57	
Pareques sp	0.40	8	0.28	
Scorpaena sp.	0.40	8	0.28	
Prionotus roseus	0.40	32	0.28	
Selar crumenophthalmus	0.40	8	0.28	
Myripristis jacobus	0.00	8		
Priacanthus arenatus	0.00	16		
Total	140.60		99.95	

PROJECT STATION: 882
 DATE: 10/9/88 GEAR TYPE: FT No:4 POSITION: Lat N 1208 Long W 7220
 TIME : 04:45 05:15 30 (min) Purpose code: 1
 LOG : 2414.30 2415.00 1.50 Area code : 8
 FDEPTH: 5 10 GearCond.code: 8
 BDEPTH: 52 50 Validity code:
 Towing dir: 245° Wire out: 100 m Speed: 29 kn*10
 Sorted: 33 Kg Total catch: 628.90 CATCH/HOUR: 1257.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	1178.00	10558	93.66	628
Carcharhinus porosus	38.00	38	3.02	
Sardinella aurita	38.00	1254	3.02	
Selar crumenophthalmus	3.80	76	0.30	
Total	1257.80		100.00	

PROJECT STATION: 883
 DATE: 10/9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1204 Long W 7218
 TIME : 06:35 07:05 30 (min) Purpose code: 3
 LOG : 2424.50 2426.00 1.50 Area code : 8
 FDEPTH: 26 29 GearCond.code: 8
 BDEPTH: 26 29 Validity code:
 Towing dir: 242° Wire out: 150 m Speed: 27 kn*10
 Sorted: 24 Kg Total catch: 24.45 CATCH/HOUR: 48.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	23.00	460	47.03	629
Balistes capricus	12.60	22	25.77	
Lactophrys trigonus	3.80	8	7.77	
Aluterus sp	3.00	6	4.09	
Carcharhinus porosus	1.20	2	2.45	
Sepioteuthis sepioides	1.00	36	2.04	
Seriola rivoliana	0.90	2	1.84	
Fistularia tabacaria	0.60	2	1.23	
Acanthostracion quadricornis	0.60	8	1.23	
Aluterus monoceros	0.60	2	1.23	
Diplectrum fornosum	0.60	12	1.23	
Loligo plei	0.40	12	0.82	
Sphyræna plicidilla	0.40	2	0.82	
Trachinocephalus myops	0.30	2	0.61	
Lutjanus synagris	0.30	2	0.61	
Acanthostracion polygonos	0.20	2	0.41	
Sphoeroides sp	0.20	12	0.41	
Stephanolepis setifer	0.10	8	0.20	
Pseudupeneus maculatus	0.10	4	0.20	
Priacanthus arenatus	0.00	2		
Total	48.90		99.99	

PROJECT STATION: 884
 DATE: 10/9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1201 Long W 7225
 TIME : 07:50 08:20 30 (min) Purpose code: 3
 LOG : 2430.30 2431.00 1.50 Area code : 8
 FDEPTH: 36 40 GearCond.code: 8
 BDEPTH: 36 40 Validity code:
 Towing dir: 242° Wire out: 200 m Speed: 30 kn*10
 Sorted: 49 Kg Total catch: 49.75 CATCH/HOUR: 99.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ocyurus chrysurus	32.40	50	32.56	631
Haemulon boschmae	14.00	1136	14.07	
Caranx crysos	11.00	20	11.06	
Calamus pennatula	10.40	96	10.45	630
Epinephelus morio	4.60	2	4.62	
Lutjanus synagris	3.60	14	3.62	
Pomacanthus paru	3.00	4	3.02	
Lutjanus griseus	2.00	6	2.81	
Balistes vetula	2.40	6	2.41	
Haemulon aurolineatum	2.40	84	2.41	
Mycteroperca bonaci	2.10	2	2.11	
Lutjanus analis	1.70	2	1.71	
Aluterus monoceros	1.60	2	1.61	
Decapterus punctatus	1.30	114	1.31	
Fistularia tabacaria	1.20	4	1.21	
Acanthurus chirurgus	1.00	2	1.03	
Haemulon plumieri	0.80	6	0.80	
Loligo plei	0.70	20	0.70	
Balistes capricus	0.70	2	0.70	
Calamus penna	0.60	2	0.60	
Eucinostomus argenteus	0.40	20	0.40	
Synodus foetens	0.30	2	0.30	
Mulloidichthys martinicus	0.30	36	0.30	
Sepioteuthis sepioides	0.10	2	0.10	
Decapterus macarellus	0.00	30	0.10	
Dactylopterus volitans	0.00	4		
Pseudupeneus maculatus	0.00	4		
Total	99.50		99.99	

PROJECT STATION: 885
 DATE: 10/9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1206 Long W 7227
 TIME : 09:10 09:40 30 (min) Purpose code: 3
 LOG : 2437.70 2439.20 1.50 Area code : 8
 FDEPTH: 54 57 GearCond.code: 8
 BDEPTH: 54 57 Validity code:
 Towing dir: 270° Wire out: 250 m Speed: 27 kn*10
 Sorted: 30 Kg Total catch: 30.30 CATCH/HOUR: 60.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	26.80	1668	44.22	633
Eucinostomus argenteus	19.60	660	32.34	632
Rhomboplites aurorubens	4.80	50	7.92	
Loligo plei	3.90	270	6.44	634
Lachnolaimus maximus	2.00	2	3.35	
Seriola rivoliana	1.00	2	1.65	
Lagocephalus laevigatus	0.70	4	1.16	
Trachinocephalus myops	0.60	8	0.99	
Dactylopterus volitans	0.30	2	0.50	
Synodus foetens	0.30	4	0.50	
Haemulon boschmae	0.20	18	0.33	
Haemulon aurolineatum	0.20	6	0.33	
Sardinella aurita	0.10	4	0.17	
Selar crumenophthalmus	0.10	16	0.17	
Diplectrum bivittatum	0.00	2		
Synodus poeyi	0.00	6		
Bothus lunatus	0.00	2		
Decapterus macarellus	0.00	4		
Decapterus punctatus	0.00	2		
Calamus pennatula	0.00	4		
Total	60.60		100.02	

PROJECT STATION: 886
 DATE: 10/9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1211 Long W 7227
 TIME : 10:45 11:15 30 (min) Purpose code: 3
 LOG : 2446.70 2447.90 1.20 Area code : 8
 FDEPTH: 70 70 GearCond.code: 8
 BDEPTH: 70 70 Validity code:
 Towing dir: 240° Wire out: 350 m Speed: 21 kn*10
 Sorted: 26 Kg Total catch: 86.64 CATCH/HOUR: 173.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Mustelus canis	25.20	12	14.54	
Decapterus punctatus	21.60	2268	12.47	
Rhomboplites aurorubens	21.00	558	12.12	635
Sardinella aurita	18.60	1340	10.73	636
Scomber japonicus	18.00	498	10.39	637
Decapterus macarellus	14.40	1290	0.31	
Selar crumenophthalmus	12.00	132	6.93	
Haemulon boschmae	7.80	804	4.50	
Acanthostracion quadricornis	4.40	4	2.54	
Calamus pennatula	4.00	24	2.31	
Seriola rivoliana	3.30	6	1.90	
Haemulon aurolineatum	3.00	78	1.73	
Eucinostomus argenteus	3.00	96	1.73	
Loligo plei	2.40	90	1.39	
Fistularia petimba	2.20	28	1.27	
Balistes capricus	2.20	2	1.27	
Priacanthus arenatus	1.80	30	1.04	
Upeneus parvus	1.80	228	1.04	
Lutjanus purpureus	1.20	12	0.69	
Saurida noronai	0.90	18	0.52	
Lagocephalus laevigatus	0.70	2	0.40	
Syacium microrum	0.60	6	0.35	
Pristipomoides macrophthalmaus	0.60	6	0.35	
Decapterus tabl	0.60	30	0.35	
Mulloidichthys martinicus	0.60	54	0.35	
Synodus sp	0.48	12	0.28	
Diplectrum bivittatum	0.30	12	0.17	
Etrumeus teres	0.30	18	0.17	
Pseudupeneus maculatus	0.30	18	0.17	
Trachurus lathami	0.00	12		
Total	173.28		100.01	

PROJECT STATION: 887
 DATE: 18/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat 1207 Long 7230
 TIME : 13:15 13:45 30 (min) Purpose code: 3
 LOG : 2465.30 2466.30 1.00 Area code : 8
 FDEPTH: 05 03 GearCond.code: 8
 BDEPTH: 05 03 Validity code:
 Towing dir: 210° Wire out: 400 m Speed: 18 kn*10
 Sorted: 33 Kg Total catch: 33.10 CATCH/HOUR: 66.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Sardinella aurita	21.00	1432	31.72
Trachurus lathami	21.00	2010	31.72
Lutjanus analis	12.00	2	19.34
Rhombolites aurorubens	4.00	72	6.95
Solar orumenophthalmus	3.00	22	4.53
Scomber japonicus	2.60	70	3.93
Calamus pennatula	0.40	2	0.60
Loligo pealei	0.20	4	0.30
Trurus teres	0.20	2	0.30
Pristipomoides macrophthalmus	0.20	2	0.30
Synodus sp	0.10	2	0.15
Fistularia petimba	0.10	2	0.15
Total	66.20	99.99	

PROJECT STATION: 891
 DATE: 18/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1200 Long W 7249
 TIME : 20:35 21:05 30 (min) Purpose code: 1
 LOG : 2506.00 2508.30 1.50 Area code : 8
 FDEPTH: 40 40 GearCond.code: 8
 BDEPTH: 69 68 Validity code:
 Towing dir: 250° Wire out: 200 m Speed: 26 kn*10
 Sorted: 29 Kg Total catch: 74.85 CATCH/HOUR: 149.70

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
Scomber japonicus	80.00	580	53.44
Sardinella aurita	29.00	2320	19.37
Trurus teres	13.50	526	9.02
Rhombolites aurorubens	13.00	1360	8.68
Decapterus macarellus	8.50	670	5.68
Decapterus punctatus	3.50	286	2.34
Decapterus tabl	2.00	26	1.34
Upeneus parvus	0.20	60	0.13
Dactylopterus volitans	0.00	6	
Trachurus lathami	0.00	10	
Haemulon boeschmae	0.00	50	
Total	149.70	100.00	

PROJECT STATION: 888
 DATE: 18/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1156 Long W 7234
 TIME : 15:10 15:40 30 (min) Purpose code: 3
 LOG : 2477.40 2478.60 1.20 Area code : 8
 FDEPTH: 33 32 GearCond.code: 8
 BDEPTH: 33 32 Validity code:
 Towing dir: 220° Wire out: 175 m Speed: 26 kn*10
 Sorted: 50 Kg Total catch: 50.10 CATCH/HOUR: 100.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Calamus pennatula	74.00	830	73.85
Lutjanus analis	12.00	2	12.77
Balistes capricus	2.20	4	2.20
Rhombolites porcellens	2.00	2	2.00
Pseudupeneus maculatus	2.00	30	2.00
Loligo plei	1.60	140	1.60
Acanthostracion quadricornis	1.60	8	1.60
Diplectrum formosum	0.80	8	0.80
Sphoeroides testudineus	0.80	8	0.80
Priacanthus arenatus	0.60	4	0.60
Balistes votula	0.60	2	0.60
Sepioteuthis sepioides	0.40	14	0.40
Fistularia tabacaria	0.30	2	0.30
Calamus penna	0.20	2	0.20
Synodus sp	0.20	2	0.20
Syacium microrum	0.10	2	0.10
Total	100.20	100.02	

PROJECT STATION: 892
 DATE: 19/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1152 Long W 7256
 TIME : 00:25 00:55 30 (min) Purpose code: 1
 LOG : 2529.60 2530.80 1.20 Area code : 8
 FDEPTH: 40 40 GearCond.code: 8
 BDEPTH: 59 69 Validity code:
 Towing dir: 250° Wire out: 150 m Speed: 23 kn*10
 Sorted: 4 Kg Total catch: 4.40 CATCH/HOUR: 8.80

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
MYCOPHIDAE	4.60		52.27
Scomber japonicus	1.00	12	11.36
Trurus teres	1.60	40	6.82
Sardinella aurita	0.60	22	6.02
Decapterus macarellus	0.60	42	6.02
Nealotus tripes	0.40	4	4.55
Decapterus tabl	0.40	4	4.55
Decapterus punctatus	0.30	8	3.41
Synagrops bellus	0.20	6	2.27
Pholidoteuthis adami	0.10	2	1.14
Upeneus parvus	0.00	6	
Total	8.80	100.01	

PROJECT STATION: 889
 DATE: 18/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1150 Long W 7241
 TIME : 16:50 17:20 30 (min) Purpose code: 3
 LOG : 2407.90 2409.10 1.20 Area code : 8
 FDEPTH: 21 21 GearCond.code: 8
 BDEPTH: 21 21 Validity code:
 Towing dir: 240° Wire out: 100 m Speed: 26 kn*10
 Sorted: 1 Kg Total catch: 1.50 CATCH/HOUR: 3.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Calamus pennatula	2.00	12	66.67
Echeneis naucrates	1.00	2	33.33
Total	3.00	100.00	

PROJECT STATION: 893
 DATE: 19/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1146 Long W 7306
 TIME : 08:45 09:05 20 (min) Purpose code: 3
 LOG : 2584.30 2585.20 0.90 Area code : 8
 FDEPTH: 69 77 GearCond.code: 8
 BDEPTH: 69 77 Validity code:
 Towing dir: 240° Wire out: 350 m Speed: 20 kn*10
 Sorted: 13 Kg Total catch: 13.05 CATCH/HOUR: 39.15

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
Lutjanus purpureus	18.00	3	45.98
Seriola rivoliana	17.40	6	44.44
Cyclosetta chittendeni	1.20	3	3.07
Priacanthus arenatus	0.90	3	2.30
Serranus phoebe	0.60	15	1.53
Loligo plei	0.45	30	1.18
Haemulon sp	0.45	3	1.15
Diplectrum bivittatum	0.15	12	0.38
Upeneus parvus	0.00	3	
Total	39.15	100.00	

PROJECT STATION: 890
 DATE: 18/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1201 Long W 7244
 TIME : 19:22 19:52 30 (min) Purpose code: 3
 LOG : 2504.20 2504.90 0.70 Area code : 8
 FDEPTH: 68 67 GearCond.code: 8
 BDEPTH: 68 67 Validity code:
 Towing dir: 250° Wire out: 350 m Speed: 13 kn*10
 Sorted: 25 Kg Total catch: 129.90 CATCH/HOUR: 259.80

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Rhombolites aurorubens	103.00	1290	39.65
Haemulon aurolineatum	56.00	5250	21.56
Haemulon boeschmae	37.00	5250	14.24
Calamus pennatula	14.00	120	5.39
Priacanthus arenatus	13.00	50	5.00
Eucinostomus argenteus	12.00	360	4.62
Scyllarides delphos	7.50	10	2.89
Otopus sp	6.00	10	2.31
Myripristia jacobus	4.50	150	1.73
Synodus intermedius	2.00	70	0.77
Scomberomorus brasiliensis	1.60	2	0.62
Mulloidichthys martinicus	1.00	110	0.38
Pennaeus brasiliensis	0.50	80	0.19
Synodus sp	0.50	10	0.19
Pseudupeneus maculatus	0.50	30	0.19
Decapterus macarellus	0.30	70	0.12
APOGONIDAE	0.30	630	0.12
Sardinella aurita	0.20	30	0.08
Holocentrus adscensionis	0.00	10	
Trachurus lathami	0.00	10	
Decapterus punctatus	0.00	10	
Porichthys pauciradiatus	0.00	20	
Scorpaena sp.	0.00	10	
Prionotus punctatus	0.00	10	
Prionotus beanii	0.00	10	
Dactylopterus volitans	0.00	10	
Lepophidium pheromystax	0.00	50	
Holocentrus rufus	0.00	20	
Upeneus parvus	0.00	70	
Total	259.90	100.05	

PROJECT STATION: 894
 DATE: 19/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1131 Long W 7317
 TIME : 12:45 13:15 30 (min) Purpose code: 3
 LOG : 2618.40 2620.10 1.70 Area code : 8
 FDEPTH: 67 66 GearCond.code: 8
 BDEPTH: 67 66 Validity code:
 Towing dir: 225° Wire out: 300 m Speed: 35 kn*10
 Sorted: 64 Kg Total catch: 64.50 CATCH/HOUR: 129.00

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.N
Lutjanus analis	28.80	10	22.33
Lutjanus purpureus	14.00	4	10.85
Rhombolites aurorubens	12.40	648	9.61
Calamus pennatula	10.00	60	7.75
Balistes vetula	9.40	4	7.29
Pomacanthus arcuatus	8.00	4	6.20
Eucinostomus argenteus	8.00	246	6.20
Sardinella aurita	7.40	276	5.74
Pomacanthus paru	5.80	4	4.50
Decapterus macarellus	5.00	250	3.88
Upeneus parvus	4.00	120	3.10
Saurida normani	3.00	46	2.33
Acanthostracion quadricornis	2.00	2	1.55
Haemulon aurolineatum	2.00	52	1.55
Synodus poeyi	1.60	18	1.24
Lutjanus vivanus	1.40	6	1.09
Haemulon boeschmae	1.40	6	1.09
Mulloidichthys martinicus	1.20	24	0.93
Loligo plei	1.00	152	0.78
Decapterus punctatus	0.90	10	0.70
Seriola dumerilii	0.60	2	0.47
Diplectrum bivittatum	0.60	14	0.47
Synodus intermedius	0.40	4	0.31
Dactylopterus volitans	0.10	2	0.08
Chaetodon sp	0.00	2	
Total	129.00	100.04	

PROJECT STATION: 895
 DATE: 19/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1129 Long W 7320
 TIME : 14:40 start stop duration Purpose code: 3
 LOG : 2630.80 2632.60 1.80 Area code : 8
 FDEPTH: 67 62 GearCond.code:
 BDEPTH: 67 62 Validity code:
 Towing dir: 210° Wire out: 325 m Speed: 32 kn*10
 Sorted: 37 Kg Total catch: 37.95 CATCH/HOUR: 75.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	24.00	760	31.62	650
Lutjanus analis	20.00	4	26.35	
Rhomboplites aurorubens	18.00	252	23.72	659
Haemulon aurolineatum	4.60	60	6.06	
Lutjanus synagris	2.60	8	3.43	
Saurida normani	2.60	18	3.43	
Eucinostomus argentatus	1.20	32	1.58	
Decapterus macarellus	1.00	56	1.32	
Calamus pinnatus	1.00	8	1.32	
Upeneus parvus	0.50	14	0.66	
Priacanthus arenatus	0.40	4	0.53	
Total	75.90		100.02	

PROJECT STATION: 896
 DATE: 19/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1123 Long W 7325
 TIME : 17:10 start stop duration Purpose code: 3
 LOG : 2649.10 2650.70 1.60 Area code : 8
 FDEPTH: 65 62 GearCond.code:
 BDEPTH: 65 62 Validity code:
 Towing dir: 220° Wire out: 300 m Speed: 30 kn*10
 Sorted: 23 Kg Total catch: 138.30 CATCH/HOUR: 276.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhomboplites aurorubens	64.00	640	23.14	661
Lutjanus synagris	56.00	240	20.25	662
Sphyraena picudilla	55.00	570	19.80	663
Lutjanus analis	36.20	22	13.09	660
Haemulon aurolineatum	16.00	390	5.78	
Eucinostomus argentatus	15.00	380	5.42	
Selar crumenophthalmus	10.00	160	3.62	
Saurida normani	6.00	70	2.17	
Calamus penna	4.00	60	1.45	
Calamus pinnatus	4.00	50	1.45	
Mustelus canis	3.40	2	1.23	
Priacanthus arenatus	3.00	30	1.08	
Upeneus parvus	2.00	140	0.72	
Pristipomoides macrophthalmus	1.00	30	0.36	
Solene spixii	0.50	10	0.18	
Mulloidichthys martinicus	0.50	20	0.18	
Diplectrum bivittatum	0.00	20		
Total	276.60		100.00	

PROJECT STATION: 897
 DATE: 19/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1121 Long W 7346
 TIME : 20:30 start stop duration Purpose code: 1
 LOG : 2673.60 2674.80 1.20 Area code : 8
 FDEPTH: 36 36 GearCond.code:
 BDEPTH: 130 141 Validity code:
 Towing dir: 265° Wire out: 150 m Speed: 31 kn*10
 Sorted: 7 Kg Total catch: 7.66 CATCH/HOUR: 18.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene spixii	12.24	132	66.59	664
Decapterus tabl	1.92	12	10.45	666
Opisthonema oglinum	1.68	55	9.14	665
Bregmaceros sp.	0.72	3	3.92	
MYCTOPHIDAE	0.72	3	3.92	
Sphyraena guachancho	0.48	2	2.61	
Scomber japonicus	0.24	2	1.31	
Synagrops sp.	0.24	127	1.31	
Synodus poeyi	0.10	194	0.54	
Shrimps, small, non comm.	0.05		0.27	
Decapterus macarellus	0.00	2		
Total	18.38		100.06	

PROJECT STATION: 898
 DATE: 20/ 9/88 GEAR TYPE: PT No:2 POSITION: Lat N 1122 Long W 7409
 TIME : 01:05 start stop duration Purpose code: 1
 LOG : 2712.10 2714.40 2.30 Area code : 8
 FDEPTH: 30 35 GearCond.code:
 BDEPTH: 145 142 Validity code:
 Towing dir: 260° Wire out: 100 m Speed: 43 kn*10
 Sorted: 5 Kg Total catch: 5.80 CATCH/HOUR: 11.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
MYCTOPHIDAE	11.60		100.00	
Total	11.60		100.00	

PROJECT STATION: 899
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1123 Long W 7407
 TIME : 02:40 start stop duration Purpose code: 3
 LOG : 2719.00 2721.30 2.30 Area code : 8
 FDEPTH: 141 143 GearCond.code:
 BDEPTH: 141 143 Validity code:
 Towing dir: 255° Wire out: 700 m Speed: 45 kn*10
 Sorted: 27 Kg Total catch: 79.65 CATCH/HOUR: 159.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
PERCICHTYDAE	90.00	2142	56.50	
Steindachneria argenta	26.40	1426	16.57	
Pristipomoides macrophthalmus	9.00	176	5.65	
Fistularia petimba	7.00	6	4.90	
Saurida normani	6.00	18	3.77	
Lepophidium profundorum	4.20	246	2.64	
Nealotus tripez	4.20	54	2.64	
Synagrops sp.	1.80	66	1.13	
Shrimps, small, non comm.	1.20	6	0.75	
Scorpaena agassizi	1.20	42	0.75	
Rhomboplites aurorubens	1.20	12	0.75	
Sphyraena picudilla	1.20	12	0.75	
Porichthys sp	1.20	6	0.75	
Solenocera sp	0.90	72	0.56	668
Argentina sp.	0.60	528	0.38	
MYCTOPHIDAE	0.60	66	0.38	
Serranus atrobranchus	0.60	168	0.38	
Pennaeus subtilis	0.60	12	0.38	667
Hildebrandia flava	0.30	6	0.19	
Aristonemora folioea	0.30	72	0.19	
Plesionika edwardsii	0.00	18		
Ogcocephalus nasutus	0.00	6		
Total	159.30		100.01	

PROJECT STATION: 90
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1106 Long W 7426
 TIME : 08:00 start stop duration Purpose code: 3
 LOG : 2762.70 2763.80 1.10 Area code : 9
 FDEPTH: 24 19 GearCond.code:
 BDEPTH: 24 19 Validity code:
 Towing dir: 260° Wire out: 150 m Speed: 24 kn*10
 Sorted: 61 Kg Total catch: 61.85 CATCH/HOUR: 123.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Balistes vetula	32.00	72	25.87	
Sphyraena picudilla	26.60	196	21.50	669
Lutjanus analis	13.80	6	11.16	
Lactophrys trigonus	10.50	24	8.49	
Caranx bartholomaei	7.00	20	5.66	
Pistularia tabacaria	6.70	20	5.42	
Scomberomorus brasiliensis	6.40	6	5.17	
Acanthostracion polygonos	5.40	24	4.37	
Caranx crysos	4.20	6	3.40	
SERRANIDAE	4.00	30	3.23	
Kyphosus sectatrix	2.40	2	1.94	
Epinephelus guttatus	1.00	4	0.81	
Scorpaena sp.	0.80	4	0.65	
Acanthurus chirurgus	0.80	6	0.65	
Soyllarides aechinoctialis	0.70	2	0.57	
Acanthostracion quadricornis	0.60	2	0.49	
SCARIDAE	0.40	2	0.32	
Pseudupeneus maculatus	0.40	24	0.32	
Total	123.70		100.02	

PROJECT STATION: 90
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1104 Long W 7429
 TIME : 09:10 start stop duration Purpose code: 3
 LOG : 2767.90 2769.60 1.60 Area code : 9
 FDEPTH: 19 17 GearCond.code:
 BDEPTH: 19 17 Validity code:
 Towing dir: 300° Wire out: 100 m Speed: 30 kn*10
 Sorted: 56 Kg Total catch: 56.20 CATCH/HOUR: 112.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ocyurus chrysurus	25.40	26	22.60	671
Lutjanus analis	25.40	18	22.60	670
Lutjanus griseus	14.40	4	12.81	
Encheliopus maximus	11.80	2	10.50	
Balistes vetula	8.00	8	7.83	
Pomacanthus paru	8.40	4	7.47	
Priacanthus arenatus	7.00	16	6.23	
Calamus penna	4.00	8	3.56	
Lutjanus buccanella	2.80	82	2.49	
Caranx bartholomaei	2.00	2	1.78	
Acanthurus chirurgus	1.00	4	0.89	
Alloctis ciliaris	0.60	2	0.53	
Lactophrys trigonus	0.40	2	0.36	
Scorpaena brasiliensis	0.30	2	0.27	
Acanthostracion polygonos	0.10	2	0.09	
Haemulon aurolineatum	0.00	6		
Total	112.40		100.01	

PROJECT STATION: 90
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1107 Long W 7441
 TIME : 11:30 start stop duration Purpose code: 3
 LOG : 2785.70 2787.60 1.90 Area code : 9
 FDEPTH: 20 50 GearCond.code:
 BDEPTH: 20 50 Validity code:
 Towing dir: 314° Wire out: 150 m Speed: 42 kn*10
 Sorted: 35 Kg Total catch: 35.90 CATCH/HOUR: 86.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	28.00	106	33.43	673
Eucinostomus argentatus	20.40	972	23.68	
Balistes capricus	19.20	86	22.28	
Lutjanus analis	10.32	10	11.90	
Microgobius furnieri	2.40	5	2.79	
Albula vulpes	2.16	2	2.51	
Rhomboplites aurorubens	1.44	10	1.67	
Synodus foetens	0.48	5	0.56	
Selene spixii	0.24	2	0.28	
Syngnathus microstomus	0.24	7	0.28	
Balistes vetula	0.24	2	0.28	
Upeneus parvus	0.12	12	0.14	
Chloroscombrus chrysurus	0.12	5	0.14	
Loligo plei	0.00	29		
Lutjanus purpureus	0.00	5		
Lutjanus vivanus	0.00	2		
Total	86.16		100.02	

PROJECT STATION: 90
 DATE: 20/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1106 Long W 7441
 TIME : 13:10 start stop duration Purpose code: 1
 LOG : 2791.00 2793.00 2.00 Area code : 9
 FDEPTH: 5 15 GearCond.code: 2
 BDEPTH: 25 28 Validity code: 9
 Towing dir: 280° Wire out: 100 m Speed: 43 kn*10
 Sorted: 5 Kg Total catch: 5.05 CATCH/HOUR: 11.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Balistes capricus	5.00	4	42.74	
Lutjanus analis	4.00	4	34.19	
Fish larvae	2.00		17.09	
Lutjanus purpureus	0.60	2	5.13	
Eucinostomus argentatus	0.10	10	0.85	
Lutjanus synagris	0.00	2		
Total	11.70		100.00	

PROJECT STATION: 904
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1059 Long W 7504

start stop duration Purpose code: 3
 TIME : 17:10 17:40 30 (min)
 LOG : 2023.00 2025.10 1.30 Area code : 9
 FDEPTH: 26 23 GearCond.code:
 DDEPTH: 26 23 Validity code:
 Towing dir: 230° Wire out: 125 m Speed: 31 kn*10

Sorted: 34 Kg Total catch: 34.60 CATCH/HOUR: 69.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	16.90	584	24.28	677
Balistes vetula	14.10	128	20.38	
Rhomboplites aurorubens	12.90	172	18.64	675
Lutjanus synagris	11.80	70	17.05	676
Priacanthus arenatus	7.80	46	11.27	674
Scomberomorus cavalla	1.70	2	2.46	
Balistes capricus	0.80	6	1.16	
Caranx crysos	0.70	2	1.01	
Scomberomorus brasiliensis	0.60	2	0.87	
Pseudupeneus maculatus	0.60	12	0.87	
Acanthostracion polygonos	0.60	4	0.87	
Acanthurus chirurgus	0.40	6	0.59	
Haemulon steindachneri	0.20	4	0.29	
Sphyrna plicifera	0.10	2	0.14	
Upeneus parvus	0.10	2	0.14	
Total	69.20		100.01	

PROJECT STATION: 905
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1100 Long W 7510

start stop duration Purpose code: 3
 TIME : 19:00 19:30 30 (min)
 LOG : 2036.10 2037.00 1.70 Area code : 9
 FDEPTH: 61 57 GearCond.code:
 DDEPTH: 61 57 Validity code:
 Towing dir: 250° Wire out: 250 m Speed: 37 kn*10

Sorted: 34 Kg Total catch: 34.40 CATCH/HOUR: 68.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus purpureus	12.80	60	18.60	678
Rhomboplites aurorubens	12.60	208	18.31	679
Carcharias porosus	10.90	6	15.84	
Eucinostomus argenteus	8.00	210	11.63	680
Lutjanus synagris	3.80	12	5.52	
Upeneus parvus	3.60	100	5.23	
Synodus poeyi	2.10	244	3.05	
Mutulus canis	1.70	2	2.47	
Lepophidium sp	1.60	46	2.33	
MYCTOPHIDAE	1.30		1.89	
Saurida normani	1.30	26	1.89	
Diplactrum bivittatum	1.00	04	1.45	
Priacanthus arenatus	1.00	6	1.45	
Porichthys pauciradiatus	0.90	196	1.31	
Pistularia petimba	0.80	4	1.16	
Loligo plei	0.70	12	1.02	
Lutjanus vivanus	0.70	4	1.02	
Balistes vetula	0.70	8	1.02	
Bairdiella sp	0.60	8	0.87	
Holocentrus adscensionis	0.50	2	0.73	
Pristipomoides macrophthalmus	0.50	156	0.73	
Prionotus punctatus	0.40	2	0.58	
Cyclosetta chittendeni	0.30	2	0.44	
renaeus notialis	0.30	10	0.44	
Selar crumenophthalmus	0.30	2	0.44	
Pseudupeneus maculatus	0.30	2	0.44	
Serranus atrobranchus	0.10	44	0.15	
Synagrops sp.	0.00	22		
Apogon sp	0.00	28		
Total	68.80		100.01	

PROJECT STATION: 906
 DATE: 20/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1054 Long W 7517

start stop duration Purpose code: 3
 TIME : 22:30 23:00 30 (min)
 LOG : 2066.10 2067.60 1.50 Area code : 9
 FDEPTH: 37 39 GearCond.code:
 DDEPTH: 37 39 Validity code:
 Towing dir: 305° Wire out: m Speed: 200 kn*10

Sorted: 79 Kg Total catch: 79.00 CATCH/HOUR: 158.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	59.60	1684	37.72	681
Lutjanus synagris	28.80	96	10.23	682
Upeneus parvus	17.20	396	10.89	683
Rhomboplites aurorubens	12.60	592	7.97	684
Lutjanus analis	7.00	2	4.43	
Diplactrum bivittatum	6.00	936	3.80	
Synodus foetens	5.40	96	3.42	
Selar crumenophthalmus	2.60	30	1.65	
Opisthonema oglinum	2.40	40	1.52	
Acanthostracion quadricornis	2.00	8	1.27	
Penaeus notialis	2.00	90	1.27	685
Haemulon steindachneri	1.80	32	1.14	
APOGONIDAE	1.20	396	0.76	
Decapterus punctatus	1.20	36	0.76	
Caranx crysos	1.20	6	0.76	
Balistes vetula	1.00	2	0.63	
Priacanthus arenatus	0.90	10	0.57	
Synodus poeyi	0.60	396	0.38	
Decapterus macarellus	0.60	72	0.38	
Porichthys pauciradiatus	0.60	216	0.38	
Lepophidium profundorum	0.60	360	0.38	
Trichiurus lepturus	0.50	2	0.32	
Mutulus higmani	0.40	2	0.25	
Aluterus monoceros	0.40	2	0.25	
Anchoa sp	0.36	216	0.23	
Mulloidichthys martinicus	0.30	24	0.19	
Holocentrus adscensionis	0.30	6	0.19	
Loligo sp	0.24	120	0.15	
Diapterus rhombus	0.20	6	0.13	
Lutjanus purpureus	0.10	2	0.06	
MYCTOPHIDAE	0.00	72		
Scorpaena sp.	0.00	12		
Priacanthus arenatus	0.00	12		
Pristipomoides macrophthalmus	0.00	72		
Lutjanus analis	0.00	12		
Total	158.00		100.08	

PROJECT STATION: 907
 DATE: 21/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1058 Long W 7526

start stop duration Purpose code: 3
 TIME : 05:45 06:15 30 (min)
 LOG : 2903.60 2905.10 1.50 Area code : 9
 FDEPTH: 48 43 GearCond.code:
 DDEPTH: 48 43 Validity code:
 Towing dir: 225° Wire out: 250 m Speed: 33 kn*10

Sorted: 22 Kg Total catch: 88.20 CATCH/HOUR: 176.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhomboplites aurorubens	130.20	2052	73.81	686
Lutjanus purpureus	17.00	8	10.09	688
Lutjanus analis	17.60	12	9.98	687
Balistes vetula	4.80	2	2.72	
Haemulon aurolineatum	2.70	48	1.53	
Rhinecanthus bicaudalis	1.20	6	0.68	
Priacanthus arenatus	0.90	6	0.51	
Lutjanus buccanella	0.60	6	0.34	
Loligo plei	0.60	96	0.34	
Total	176.40		100.00	

PROJECT STATION: 908
 DATE: 21/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1044 Long W 7531

start stop duration Purpose code: 3
 TIME : 08:05 08:20 15 (min)
 LOG : 2920.60 2921.30 0.70 Area code : 9
 FDEPTH: 46 46 GearCond.code:
 DDEPTH: 46 46 Validity code:
 Towing dir: 180° Wire out: 250 m Speed: 34 kn*10

Sorted: 6 Kg Total catch: 6.15 CATCH/HOUR: 24.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	16.00	1728	65.04	690
Rhomboplites aurorubens	5.60	144	22.76	689
Caranx crysos	2.80	4	11.38	
Lutjanus vivanus	0.20	96	0.81	
Diplactrum bivittatum	0.00	20		
Synodus poeyi	0.00	12		
Upeneus parvus	0.00	4		
Total	24.60		99.99	

PROJECT STATION: 909
 DATE: 21/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1048 Long W 7583

start stop duration Purpose code: 1
 TIME : 09:05 09:35 30 (min)
 LOG : 2923.00 2924.50 1.50 Area code : 9
 FDEPTH: 27 27 GearCond.code:
 DDEPTH: 44 44 Validity code:
 Towing dir: 10° Wire out: 150 m Speed: 31 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
NO C A T C H	0.00			
Total	0.00			

PROJECT STATION: 910
 DATE: 21/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1041 Long W 7529

start stop duration Purpose code: 3
 TIME : 11:25 11:55 30 (min)
 LOG : 2938.30 2939.70 1.40 Area code : 9
 FDEPTH: 29 36 GearCond.code:
 DDEPTH: 29 36 Validity code:
 Towing dir: 240° Wire out: 150 m Speed: 26 kn*10

Sorted: 22 Kg Total catch: 22.15 CATCH/HOUR: 44.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	22.00	792	49.66	691
Lutjanus analis	10.00	8	22.57	692
Calamus pinnatula	2.00	20	4.51	
Acanthostracion polygonos	2.00	16	4.51	
Pomacanthus arcuatus	2.00	2	4.51	
Balistes vetula	1.20	4	2.71	
Loligo plei	1.00	102	2.26	
Scomberomorus brasiliensis	1.00	2	2.26	
Rhomboplites aurorubens	0.60	40	1.35	693
Balistes capricus	0.60	2	1.35	
Synodus foetens	0.40	6	0.90	
Acanthostracion quadricornis	0.40	12	0.90	
Lutjanus synagris	0.40	16	0.90	
Pseudupeneus maculatus	0.30	4	0.68	
Chilomycterus antillarum	0.20	2	0.45	
Prionotus punctatus	0.10	2	0.23	
Diplactrum bivittatum	0.10	4	0.23	
Lutjanus vivanus	0.00	4		
Mycteroperca venenosa	0.00	2		
Total	44.30		99.98	

PROJECT STATION: 911
 DATE: 21/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat 1029 Long 7537

start stop duration Purpose code: 3
 TIME : 14:00 14:30 30 (min)
 LOG : 2955.80 2957.40 1.60 Area code : 9
 FDEPTH: 102 99 GearCond.code:
 DDEPTH: 102 99 Validity code:
 Towing dir: 205° Wire out: 425 m Speed: 33 kn*10

Sorted: 31 Kg Total catch: 31.70 CATCH/HOUR: 63.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Rhomboplites aurorubens	57.00	924	89.91	694
Lutjanus synagris	2.60	8	4.10	
Loligo plei	1.20	336	1.09	
Eucinostomus argenteus	0.80	16	1.26	
Upeneus parvus	0.60	14	0.95	
Saurida normani	0.60	12	0.95	
Pristipomoides macrophthalmus	0.40	24	0.63	
Cyclosetta chittendeni	0.20	2	0.32	
Serranus atrobranchus	0.00	4		
Total	63.40		100.01	

DATE: 21/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 1022 Long W 7543
 start stop duration Purpose code: 3
 TIME : 16:05 16:10 5 (min) Area code : 9
 LOG : 2970.50 2970.50 GearCond.code: 9
 FDEPTH: 98 91 Validity code: 9
 DDEPTH: 98 91
 Towing dir: 160° Wire out: 400 m Speed: 30 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 NO CATCH 0.00

DATE: 22/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 943 Long W 7606
 start stop duration Purpose code: 1
 TIME : 03:45 04:15 30 (min) Area code : 9
 LOG : 3055.70 3057.20 1.50 GearCond.code: 9
 FDEPTH: 10 10 Validity code: 9
 DDEPTH: 72 77
 Towing dir: 320° Wire out: 100 m Speed: 30 kn*10

Sorted: Kg Total catch: 0.30 CATCH/HOUR: 0.60

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Opiathonema oglinum 0.60 6 100.00
 Total 0.60 100.00

DATE: 22/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 943 Long W 7606
 start stop duration Purpose code: 3
 TIME : 05:45 06:15 30 (min) Area code : 9
 LOG : 3061.60 3063.30 1.70 GearCond.code: 9
 FDEPTH: 69 64 Validity code: 9
 DDEPTH: 69 64
 Towing dir: 145° Wire out: 350 m Speed: 31 kn*10

Sorted: 17 Kg Total catch: 17.20 CATCH/HOUR: 34.40

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Rhizoprionodon porosus 10.00 10 29.07
 Eucinostomus argenteus 7.00 250 22.67 695
 Loligo plei 4.40 162 12.79 697
 Upeneus parvus 1.60 66 4.65
 Loligo plei 1.40 214 4.07 696
 Selene spixii 1.40 36
 Sphyracna guachancho 1.00 4 2.91
 Chloroscombrus chrysurus 1.00 26 2.91
 Synodus foetens 0.80 4 2.33
 Rhomboplites aurorubens 0.70 20 2.03
 Penaeus notialis 0.60 24 1.74
 Diplectrum bivittatum 0.60 42 1.74
 Trichurus lepturus 0.50 18 1.45
 Decapterus punctatus 0.50 18 1.45
 Salar crumenophthalmus 0.40 118 1.16
 Prionotus stearnsi 0.40 6 1.16
 Pristigaster arenatus 0.30 26 0.87
 Saurida normani 0.20 6 0.58
 Decapterus macarellus 0.10 4 0.29
 Synodus poeyi 0.10 4 0.29
 Total 34.40 99.97

DATE: 22/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 932 Long W 7600
 start stop duration Purpose code: 3
 TIME : 08:05 08:35 30 (min) Area code : 9
 LOG : 3072.90 3074.30 1.40 GearCond.code: 9
 FDEPTH: 37 30 Validity code: 9
 DDEPTH: 37 30
 Towing dir: 145° Wire out: 175 m Speed: 28 kn*10

Sorted: 8 Kg Total catch: 8.25 CATCH/HOUR: 16.50

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Chloroscombrus chrysurus 4.40 124 26.67 698
 Scomberomorus cavalla 2.20 2 13.23
 Caranx crysos 1.40 12 8.48
 Lutjanus synagris 1.20 6 7.27
 Salar crumenophthalmus 1.20 22 7.27
 Rhizoprionodon porosus 1.00 2 6.06
 Lolliguncula brevis 0.90 116 5.45
 Loligo plei 0.80 176 4.85
 Upeneus parvus 0.80 22 4.85
 Loligo plei 0.60 136 3.64
 Eucinostomus argenteus 0.60 16 3.64
 Pristigaster arenatus 0.60 6 3.64
 Synodus foetens 0.30 4 1.82
 Selene spixii 0.30 2 0.61
 Peprilus paru 0.10 2 0.61
 Diplectrum bivittatum 0.10 6 0.61
 Penaeus notialis 0.00 2
 Opiathonema oglinum 0.00 2
 Decapterus punctatus 0.00 4
 Total 16.50 100.01

DATE: 22/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 941 Long W 7557
 start stop duration Purpose code: 3
 TIME : 13:00 13:30 30 (min) Area code : 9
 LOG : 3112.90 3114.30 1.40 GearCond.code: 9
 FDEPTH: 44 47 Validity code: 9
 DDEPTH: 44 47
 Towing dir: 160° Wire out: 150 m Speed: 29 kn*10

Sorted: 1 Kg Total catch: 1.25 CATCH/HOUR: 2.50

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Scomberomorus cavalla 0.70 2 28.00
 Scomberomorus brasiliensis 0.70 2 28.00
 Peprilus paru 0.40 8 16.00
 Loligo plei 0.40 80 16.00
 Rhomboplites aurorubens 0.20 2 8.00
 Eucinostomus argenteus 0.10 4 4.00
 Total 2.50 100.00

DATE: 22/ 9/88 GEAR TYPE: BT No:1 POSITION: Lat N 948 Long W 7558
 start stop duration Purpose code: 3
 TIME : 14:35 15:05 30 (min) Area code : 9
 LOG : 3122.90 3124.10 1.20 GearCond.code: 9
 FDEPTH: 54 59 Validity code: 9
 DDEPTH: 54 59
 Towing dir: 30° Wire out: 225 m Speed: 22 kn*10

Sorted: 6 Kg Total catch: 6.35 CATCH/HOUR: 12.70

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Decapterus punctatus 4.40 170 34.65 699
 Eucinostomus argenteus 4.00 162 31.50
 Loligo plei 3.00 826 23.62
 Sardinella aurita 0.40 26 3.15
 Upeneus parvus 0.20 20 1.57
 Decapterus macarellus 0.20 6 1.57
 Rhomboplites aurorubens 0.20 8 1.57
 Chloroscombrus chrysurus 0.10 2 0.79
 Diplectrum bivittatum 0.10 2 0.79
 Decapterus tabl 0.10 2 0.79
 Synodus poeyi 0.00 2
 Anchoa lyolepis 0.00 4
 Total 12.70 100.00

DATE: 23/ 9/88 GEAR TYPE: PT No:4 POSITION: Lat N 1045 Long W 7530
 start stop duration Purpose code: 1
 TIME : 01:25 02:10 45 (min) Area code : 9
 LOG : 3219.30 3221.20 1.90 GearCond.code: 9
 FDEPTH: 5 5 Validity code: 9
 DDEPTH: 35 37
 Towing dir: 210° Wire out: 100 m Speed: 22 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 NO CATCH 0.00

DATE: 29/10/88 GEAR TYPE: BT No:1 POSITION: Lat N 626 Long W 5550
 start stop duration Purpose code: 3
 TIME : 17:08 17:38 30 (min) Area code : 1
 LOG : 4833.30 4835.00 1.70 GearCond.code: 1
 FDEPTH: 29 29 Validity code: 1
 DDEPTH: 29 29
 Towing dir: 100° Wire out: 150 m Speed: 3 kn*10

Sorted: 24 Kg Total catch: 24.26 CATCH/HOUR: 48.52

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Loligo plei 25.00 1784 51.53 700
 Chirocentrodon bleekeriannus 9.60 6080 19.79
 Sphyracna guachancho 3.60 8 7.42
 Hami-caranx amblyrhynchus 3.40 26 7.01
 Synodus sp 2.16 416 4.45
 Echinops naucrates 1.00 2 2.06
 Opiathonema oglinum 1.00 26 2.06
 Chloroscombrus chrysurus 1.00 52 2.06
 Diplectrum radiale 0.40 2 0.82
 Dactylopterus volitans 0.40 2 0.82
 Solene setapinnis 0.40 10 0.82
 Anchoiella sp 0.32 176 0.66
 Penaeus brasiliensis 0.16 4 0.33 701
 Haemulon beschnae 0.00 2
 Sardinella aurita 0.00 2
 Total 48.44 99.03

DATE: 29/10/88 GEAR TYPE: BT No:1 POSITION: Lat N 622 Long W 5520
 start stop duration Purpose code: 1
 TIME : 20:48 21:18 30 (min) Area code : 1
 LOG : 4868.20 4869.80 1.60 GearCond.code: 1
 FDEPTH: 28 29 Validity code: 3
 DDEPTH: 28 29
 Towing dir: 100° Wire out: 200 m Speed: 3 kn*10

Sorted: 13 Kg Total catch: 011.00 CATCH/HOUR: 1622.00

SPECIES CATCH/HOUR % OF TOT. C SAMP.NO.
 weight numbers
 Chirocentrodon bleekeriannus 1440.00 547200 88.78
 Prionotus punctatus 42.00 520 2.59
 Anchoiella brevirostris 33.60 11520 2.07
 Anchoiella lepidentostole 24.00 3520 1.48
 Synodus sp 13.00 480 0.80
 Scomberomorus brasiliensis 12.60 180 0.78
 Microgogonias furnieri 11.60 20 0.72
 Cynoscion jamaicensis 10.00 100 0.62
 Anchoa filifera 4.80 1280 0.30
 Scomberomorus cavalla 4.40 4 0.27
 Dactylopterus volitans 4.00 20 0.25
 Conodon nobilis 3.40 8 0.21
 Upeneus parvus 3.00 120 0.18
 Trichurus lepturus 3.00 10 0.18
 Sphyracna guachancho 3.00 4 0.18
 Lepophidium sp 2.00 120 0.12
 Diplectrum radiale 2.00 60 0.12
 Penaeus notialis 1.70 34 0.10 702
 Acanthostracion quadricornis 1.20 8 0.07
 Penaeus subtilis 1.10 46 0.07 703
 Shriaps, small, non comm. 0.80 660 0.05
 Orthopristis ruber 0.80 20 0.05
 Lutjanus sp 0.00 20
 Porichthys pauciradiatus 0.00 40
 Opiathonema oglinum 0.00 40
 Total 1622.00 99.99

DATE:30/10/08 PROJECT STATION: 921
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 648
 TIME : 06:15 06:45 30 (min) Purpose code: 3
 LOG :4965.00 4967.00 1.20 Area code : 1
 FDEPTH: 44 45 GearCond.code: 1
 BDEPTH: 44 45 Validity code: 1
 Towing dir: 300° Wire out: 250 m Speed: 3 kn*10
 Sorted: 54 Kg Total catch: 54.39 CATCH/HOUR: 108.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Hemicaranx amblyrhynchus	36.00	212	33.09	707
Chloroscombrus chrysurus	20.00	494	18.39	706
Scomberomorus cavalla	15.00	14	13.79	704
Rhomboplites aurorubens	9.00	164	9.01	
Caroharhinus porosus	7.60	10	6.99	
Priacanthus arenatus	5.60	42	5.15	
Sphyrana guachancho	3.60	10	3.31	
Scomberomorus brasiliensis	3.40	12	3.13	705
Loligo plei	2.40	162	2.21	
Lutjanus synagris	2.00	6	1.04	
Prionotus punctatus	1.00	6	0.92	
Opisthonema oglinum	0.60	10	0.55	
Selar crumenophthalmus	0.60	10	0.55	
Sphyrana picudilla	0.32	2	0.29	
Trachinotus carolinus	0.26	2	0.24	
Eucinostomus gula	0.20	4	0.18	
Diplactrum radiale	0.14	2	0.13	
Decapterus punctatus	0.14	2	0.13	
Rachycentron canadus	0.10	2	0.09	
Lutjanus purpureus	0.02	2	0.02	
Total		108.78	100.01	

DATE:30/10/08 PROJECT STATION: 925
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 740
 TIME : 19:43 20:43 60 (min) Purpose code: 3
 LOG :5049.00 5052.30 2.50 Area code : 1
 FDEPTH: 507 512 GearCond.code: 1
 BDEPTH: 507 512 Validity code: 1
 Towing dir: 250° Wire out:1400 m Speed: 2 kn*10
 Sorted: 18 Kg Total catch: 58.10 CATCH/HOUR: 58.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
S H R I M P S	15.60	1176	26.85	
Nesumia auilla	13.20	360	22.72	
Raja sp	5.40	6	9.29	
UNIDENTIFIED FISH	3.60	62	6.20	
Plesiopeneus edwardsianus	3.50	62	6.02	717
Btomopterus sp	3.45	18	5.94	
Pholidoteuthis adami	3.00	6	5.16	
Bathynomus giganteus	2.40	6	4.13	
Coelorrinchus sp	2.25	21	3.87	
Benthodesmus tenuis	1.50	57	2.58	
Hydrolagus sp.	1.20	3	2.07	
Ilix coindetti	0.90	3	1.55	
ANACANTHOBATHIDAE	0.75	6	1.29	
Synagrops sp.	0.45	9	0.77	
Anacanthobatis sp.	0.30	3	0.52	
Dibranchus sp	0.30	21	0.52	
Chaunax sp.	0.30	15	0.52	
GONOSTOMATIDAE	0.00	3		
MYCTOPHIDAE	0.00	9		
Total		58.10	100.00	

DATE:30/10/08 PROJECT STATION: 922
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 703
 TIME : 08:50 09:20 30 (min) Purpose code: 3
 LOG :4984.10 4985.40 1.30 Area code : 1
 FDEPTH: 67 66 GearCond.code: 2
 BDEPTH: 67 66 Validity code: 2
 Towing dir: 270° Wire out: 350 m Speed: 3 kn*10
 Sorted: 29 Kg Total catch: 95.76 CATCH/HOUR: 191.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	68.00	1106	35.51	709
Rhomboplites aurorubens	64.00	560	33.42	710
Priacanthus arenatus	13.60	80	7.10	
Lutjanus purpureus	8.00	14	4.18	708
Pristipomoides macrophthalmus	6.40	64	3.34	
Paprius paru	6.00	20	3.13	
Caroharhinus porosus	4.00	4	2.09	
Opisthonema oglinum	2.80	36	1.46	
Sphyrana picudilla	2.80	16	1.46	
Prionotus punctatus	2.40	4	1.25	
Trachinotus carolinus	2.40	20	1.25	
Selene setapinnis	2.40	12	1.25	
Hemicaranx amblyrhynchus	1.60	4	0.84	
Sardinella aurita	1.60	4	0.84	
Sphyrana guachancho	0.80	4	0.42	
Trichiurus lepturus	0.80	4	0.42	
Scomberomorus cavalla	0.60	4	0.42	
Haemulon boschmae	0.60	36	0.31	
Loligo plei	0.40	152	0.21	
Selar crumenophthalmus	0.12	0	0.06	
Total		191.52	100.00	

DATE:31/10/08 PROJECT STATION: 926
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 642
 TIME : 03:23 03:53 30 (min) Purpose code: 3
 LOG :5117.90 5118.70 0.80 Area code : 1
 FDEPTH: 39 39 GearCond.code: 1
 BDEPTH: 39 39 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 2 kn*10
 Sorted: 88 Kg Total catch: 371.05 CATCH/HOUR: 742.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	301.60	5266	40.64	719
Lutjanus synagris	145.60	442	19.62	718
Upeneus parvus	74.10	3094	9.99	720
Eucinostomus argenteus	67.60	1170	9.11	721
Lutjanus purpureus	60.00	60	8.09	
Orthopristis ruber	19.60	92	2.64	
Opisthonema oglinum	9.10	92	1.23	
Rhomboplites aurorubens	7.80	30	1.05	
Calamus ponnatula	7.80	26	1.05	
Sphyrana barracuda	7.00	2	0.94	
Haemulon boschmae	6.60	52	0.89	
Priacanthus arenatus	5.20	26	0.70	
Synodus sp	5.20	638	0.70	
Selene spixii	5.20	12	0.70	
Decapterus punctatus	3.90	66	0.53	
Rhizoprionodon porosus	3.60	4	0.49	
Pomatomus saltatrix	3.40	6	0.46	
Scomberomorus cavalla	3.40	4	0.46	
Loligo plei	2.60	182	0.35	
Bathynomus giganteus	1.60	2	0.22	
Dactylopterus volitans	1.20	12	0.16	
Pareucottus brachypterus	0.00	12		
Trachurus lathami	0.00	12		
Diplactrum formosum	0.00	12		
Prionotus stearnsi	0.00	12		
Pristipomoides macrophthalmus	0.00	12		
Serranus phoebe	0.00	12		
Synodus intermedius	0.00	12		
Haemulon steindachneri	0.00	12		
Total		742.10	100.02	

DATE:30/10/08 PROJECT STATION: 923
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 717
 TIME : 11:18 11:40 30 (min) Purpose code: 3
 LOG :5000.90 5002.10 1.20 Area code : 1
 FDEPTH: 90 90 GearCond.code: 1
 BDEPTH: 90 90 Validity code: 1
 Towing dir: 270° Wire out: 270 m Speed: 3 kn*10
 Sorted: 85 Kg Total catch: 210.50 CATCH/HOUR: 421.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene spixii	187.00	1162	44.42	713
Rhomboplites aurorubens	64.40	504	15.30	714
Lutjanus purpureus	57.00	76	13.54	711
Priacanthus arenatus	44.00	440	10.45	715
Paprius paru	19.20	70	4.56	
Haemulon aurolineatum	16.00	182	3.80	
Trachurus lathami	14.00	314	3.33	712
Rhizoprionodon porosus	9.00	4	2.14	
Scomberomorus cavalla	3.40	4	0.81	
Loligo plei	1.40	128	0.33	
Holocentrus adscensionis	1.40	6	0.33	
Balistes vetula	1.20	2	0.29	
Pristipomoides freemani	1.00	20	0.24	
Saurida sp	1.00	6	0.24	
Calamus pennatula	0.60	6	0.14	
Chloroscombrus chrysurus	0.34	6	0.08	
Total		420.94	100.00	

DATE:31/10/08 PROJECT STATION: 927
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 630
 TIME : 05:17 05:47 30 (min) Purpose code: 3
 LOG :5132.40 5133.20 0.80 Area code : 1
 FDEPTH: 33 34 GearCond.code: 1
 BDEPTH: 33 34 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 2 kn*10
 Sorted: 54 Kg Total catch: 1219.90 CATCH/HOUR: 2439.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Orthopristis ruber	1264.00	8154	51.81	
Lutjanus synagris	402.20	1444	16.48	722
Rhomboplites aurorubens	228.40	1122	9.36	723
Chloroscombrus chrysurus	134.40	1248	5.51	
Haemulon steindachneri	102.40	672	4.20	
Sphyrana guachancho	83.20	160	3.41	
Priacanthus arenatus	67.20	256	2.75	
Trichiurus lepturus	57.60	160	2.36	
Scomberomorus brasiliensis	20.00	40	0.82	725
Selene setapinnis	16.00	192	0.66	
Lutjanus purpureus	15.00	8	0.61	
Haemulon aurolineatum	12.80	64	0.52	
Scomberomorus cavalla	11.80	4	0.48	
Lutjanus jocu	8.60	4	0.30	724
Trachinotus carolinus	3.20	4	0.13	
Pomatomus saltatrix	2.80	4	0.11	
Anisotremus virginicus	1.60	2	0.07	
Haemulon plumieri	1.40	2	0.06	
Total		2439.80	99.99	

DATE:30/10/08 PROJECT STATION: 924
 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 750
 TIME : 16:46 17:46 60 (min) Purpose code: 3
 LOG :5035.00 5037.40 2.40 Area code : 1
 FDEPTH: 700 709 GearCond.code: 1
 BDEPTH: 700 709 Validity code: 1
 Towing dir: 270° Wire out:1900 m Speed: 2 kn*10
 Sorted: 22 Kg Total catch: 61.60 CATCH/HOUR: 61.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Nematocarcinus rotundus	15.20	2171	24.60	
Plesiopeneus edwardsianus	11.10	145	18.02	716
Benthodesmus tenuis	8.40	166	13.64	
GONOSTOMATIDAE	7.00	142	11.36	
UNIDENTIFIED FISH	5.00		9.42	
Bathynomus giganteus	4.20	32	6.82	
ALEPOCEPHALIDAE	2.40	40	3.90	
Nesumia auilla	1.60	32	2.60	
Pholidoteuthis adami	1.50	1	2.44	
Bathypterois viridensis	1.40	24	2.27	
LOBNIOO	1.20	30	1.95	
Breviraja spinosa	1.00	2	1.62	
Coelorrinchus sp	0.60	10	0.97	
NEMATOCARCINIDAE	0.20	10	0.32	
Total		61.60	100.01	

PROJECT STATION: 928
 DATE: 31/10/88 GEAR TYPE: BT No:1 POSITION: Lat N 622 Long W 5508
 start stop duration Purpose code: 3
 TIME : 06:50 07:20 30 (min) Area code : 1
 LOG : 5142.60 5143.90 1.30 GearCond. code: 1
 FDEPTH: 28 28 GearCond. code: 1
 BDEPTH: 28 28 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 2 kn*10
 Sorted: 1 Kg Total catch: 721.50 CATCH/HOUR: 1443.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chirocentrodon bleekerianus	644.00	218960	44.63	730
Anchoyella sp	588.00		40.80	
Anchoa filifera	55.20	20240	3.03	
Lutjanus synagris	52.80	56	3.66	726
Scomberomorus brasiliensis	34.20	40	2.37	728
Carcharhinus porosus	23.60	28	1.64	
Scomberomorus cavalla	18.40	26	1.28	729
Micropogonias furnieri	10.40	18	0.72	727
Oligoplites saliens	5.20	8	0.36	
Chaetodipterus faber	3.00	2	0.26	
Conodon nobilis	2.00	8	0.14	
Trichiurus lepturus	1.60	4	0.11	
Selene setapinnis	1.20	4	0.08	
Trachinotus carolinus	1.00	2	0.07	
Chloroscombrus chrysurus	0.40	4	0.03	
Total	1442.60		99.98	

PROJECT STATION: 937
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 703 Long W 5542
 start stop duration Purpose code: 3
 TIME : 11:45 12:15 30 (min) Area code : 1
 LOG : 5318.20 5319.30 1.10 GearCond. code: 1
 FDEPTH: 69 74 GearCond. code: 1
 BDEPTH: 69 74 Validity code: 1
 Towing dir: 325° Wire out: 300 m Speed: 2 kn*10
 Sorted: 32 Kg Total catch: 86.35 CATCH/HOUR: 172.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	98.00	1310	56.75	746
Priacanthus arenatus	14.00	174	8.11	747
Sphyræna guachancho	10.50	24	6.08	
Chloroscombrus chrysurus	10.00	190	5.79	
Trachurus lathami	8.40	78	4.88	
Carcharhinus acronotus	8.20	2	4.75	
Rhizoprionodon porosus	7.40	8	4.28	
Scomberomorus cavalla	3.20	4	1.85	
Eucinostomus gula	2.60	24	1.51	
Synodus sp	2.40	6	1.39	
Pristipomoides macrophthalmus	2.00	34	1.16	
Hemicaranx amblyrhynchus	2.00	6	1.16	
Saurida sp	2.00	22	1.16	
Upeneus parvus	1.00	64	0.50	
Mustelus higmani	1.00	2	0.58	
Loligo plei	0.00	14		
Selene spixii	0.00	14		
Total	172.70		100.01	

PROJECT STATION: 929
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 710 Long W 5515
 start stop duration Purpose code: 3
 TIME : 06:15 06:45 30 (min) Area code : 1
 LOG : 5279.40 5280.70 1.30 GearCond. code: 1
 FDEPTH: 76 79 GearCond. code: 1
 BDEPTH: 76 79 Validity code: 1
 Towing dir: 300° Wire out: 400 m Speed: 3 kn*10
 Sorted: 52 Kg Total catch: 226.80 CATCH/HOUR: 453.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Hemicaranx amblyrhynchus	145.60	1092	32.10	733
Selene setapinnis	136.00	604	30.16	732
Rhomboplites aurorubens	81.60	670	17.99	734
Priacanthus arenatus	21.60	256	4.76	
Carcharhinus porosus	20.20	20	4.45	
Pristipomoides macrophthalmus	16.80	256	3.70	
Pepilius paru	8.80	56	1.94	
Scomberomorus cavalla	8.40	6	1.85	735
Lutjanus purpureus	8.20	12	1.81	731
Sphyræna guachancho	3.20	8	0.71	
Sphyræna plicidilla	1.60	8	0.35	
Chloroscombrus chrysurus	0.80	8	0.18	
Total	453.60		100.00	

PROJECT STATION: 933
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 714 Long W 5551
 start stop duration Purpose code: 3
 TIME : 13:37 14:07 30 (min) Area code : 1
 LOG : 5331.30 5332.60 1.30 GearCond. code: 1
 FDEPTH: 94 90 GearCond. code: 1
 BDEPTH: 94 90 Validity code: 1
 Towing dir: 300° Wire out: 400 m Speed: 3 kn*10
 Sorted: 124 Kg Total catch: 187.20 CATCH/HOUR: 374.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	350.00	658	93.48	748
Lutjanus purpureus	13.60	16	3.63	
Pristipomoides macrophthalmus	3.60	66	0.96	
Priacanthus arenatus	3.00	12	0.80	
Balistes vetula	2.40	4	0.64	
Loligo plei	0.60	42	0.16	
Ariomma bondi	0.60	6	0.16	
Haemulon chrysargyreum	0.30	12	0.08	
Trachurus lathami	0.30	12	0.08	
Total	374.40		99.99	

PROJECT STATION: 930
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 712 Long W 5529
 start stop duration Purpose code: 3
 TIME : 08:12 08:44 32 (min) Area code : 1
 LOG : 5293.00 5295.20 1.40 GearCond. code: 1
 FDEPTH: 84 84 GearCond. code: 1
 BDEPTH: 84 84 Validity code: 1
 Towing dir: 276° Wire out: 450 m Speed: 3 kn*10
 Sorted: 42 Kg Total catch: 119.08 CATCH/HOUR: 223.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	122.00	819	54.67	742
Rhomboplites aurorubens	29.63	255	13.27	737
Rhizoprionodon porosus	11.00	6	4.95	
Scomberomorus cavalla	10.69	11	4.79	740
Sphyræna guachancho	8.25	17	3.69	739
Priacanthus arenatus	7.88	92	3.53	
Lutjanus purpureus	7.13	23	3.19	736
Solar crumenophthalmus	5.01	30	2.24	
Sardinella aurita	4.88	41	2.19	738
Pristipomoides macrophthalmus	4.31	69	1.93	
Scomberomorus brasiliensis	3.94	8	1.76	741
Scomber japonicus	3.56	17	1.59	
Cynoscion acoupa	1.88	4	0.84	
Hemicaranx amblyrhynchus	1.13	8	0.51	
Saurida sp	0.75	4	0.34	
Loligo plei	0.68	34	0.30	
Opisthonema oglinum	0.28	2	0.13	
Total	223.12		99.92	

PROJECT STATION: 934
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 713 Long W 5605
 start stop duration Purpose code: 3
 TIME : 16:42 17:12 30 (min) Area code : 1
 LOG : 5347.30 5348.70 1.40 GearCond. code: 1
 FDEPTH: 83 82 GearCond. code: 1
 BDEPTH: 83 82 Validity code: 1
 Towing dir: 275° Wire out: 400 m Speed: 3 kn*10
 Sorted: 28 Kg Total catch: 465.00 CATCH/HOUR: 930.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus lathami	579.20	18582	62.28	750
Rhomboplites aurorubens	217.60	5136	23.40	749
Sardinella aurita	64.00	1472	6.80	751
Priacanthus arenatus	48.00	672	5.16	
Scomberomorus cavalla	6.80	2	0.73	
Trichiurus lepturus	6.40	32	0.69	
Decapterus punctatus	3.20	96	0.34	
Pristipomoides macrophthalmus	3.20	64	0.34	
Upeneus parvus	1.60	128	0.17	
Loligo plei	0.00	32		
Total	930.00		99.99	

PROJECT STATION: 931
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 709 Long W 5535
 start stop duration Purpose code: 1
 TIME : 09:47 10:17 30 (min) Area code : 1
 LOG : 5303.50 5305.10 1.60 GearCond. code: 1
 FDEPTH: 80 81 GearCond. code: 1
 BDEPTH: 80 81 Validity code: 3
 Towing dir: 49° Wire out: 400 m Speed: 3 kn*10
 Sorted: 50 Kg Total catch: 105.36 CATCH/HOUR: 210.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pristipomoides macrophthalmus	76.00	1050	36.07	743
Rhomboplites aurorubens	51.20	780	24.30	744
Pepilius paru	27.20	164	12.91	
Trachurus lathami	24.00	616	11.39	745
Priacanthus arenatus	11.20	148	5.32	
Saurida sp	6.00	60	2.85	
Scomberomorus brasiliensis	5.40	8	2.56	
Upeneus parvus	2.08	64	0.99	
Mustelus higmani	1.80	2	0.85	
Aluterus schoepfi	1.40	2	0.66	
Calamus japonicus	1.04	8	0.49	
Sardinella aurita	1.00	12	0.47	
Loligo plei	0.68	36	0.32	
Fistularia potimba	0.44	4	0.21	
Caulolatilus intermedius	0.40	4	0.19	
Diodon sp.	0.40	4	0.19	
Selene setapinnis	0.20	4	0.09	
Diplectrum formosum	0.16	4	0.08	
Prionotus sp	0.12	4	0.06	
Total	210.72		100.00	

PROJECT STATION: 935
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 707 Long W 5612
 start stop duration Purpose code: 3
 TIME : 17:05 17:35 30 (min) Area code : 1
 LOG : 5356.80 5358.10 1.30 GearCond. code: 1
 FDEPTH: 71 69 GearCond. code: 1
 BDEPTH: 71 69 Validity code: 1
 Towing dir: 220° Wire out: 350 m Speed: 3 kn*10
 Sorted: 14 Kg Total catch: 14.92 CATCH/HOUR: 29.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Rhomboplites aurorubens	6.40	168	21.45	754
Chloroscombrus chrysurus	5.40	136	18.10	752
Selar crumenophthalmus	4.80	60	16.09	753
Rachycentron canadus	4.40	2	14.75	
Priacanthus arenatus	2.40	34	8.04	
Upeneus parvus	2.00	32	6.70	
Loligo plei	1.40	60	4.69	
Pristipomoides macrophthalmus	1.40	28	4.69	
Synodus sp	0.80	20	2.68	
Eucinostomus gula	0.30	6	1.01	
Trachurus lathami	0.20	2	0.47	
Calamus calamus	0.14	2	0.67	
Trachinocephalus myops	0.08	2	0.27	
Haemulon striatum	0.06	2	0.20	
Diplectrum vittatum	0.06	2	0.20	
Total	29.84		100.01	

PROJECT STATION: 936
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 636 Long W 5614
 start stop duration
 TIME : 19:04 19:37 33 (min) Purpose code: 3
 LOG : 5371.00 5372.50 1.50 Area code : 1
 PDEPTH: 49 49 GearCond.code: 1
 BDEPTH: 49 49 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 2 kn*10
 Sorted: 23 Kg Total catch: 75.16 CATCH/HOUR: 136.65

PROJECT STATION: 938
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 636 Long W 5549
 start stop duration
 TIME : 00:30 01:00 30 (min) Purpose code: 3
 LOG : 5416.60 5418.40 1.80 Area code : 1
 PDEPTH: 33 33 GearCond.code: 1
 BDEPTH: 33 33 Validity code: 1
 Towing dir: 72° Wire out: 150 m Speed: 3 kn*10
 Sorted: 29 Kg Total catch: 53.50 CATCH/HOUR: 107.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	17.45		12.77	
Eucinostomus gula	14.10	224	10.30	
Chloroscombrus chrysurus	13.09	131	9.50	
Priacanthus arenatus	12.00	82	8.78	
Haemulon aurolineatum	12.00	169	8.78	
Rhomboplites aurorubens	10.36	175	7.58	756
Dactylopterus volitans	9.27	115	6.78	
Cynoscion jamaicensis	6.55	27	4.79	
Haemulon boschmae	4.36	191	3.19	
Balistes caprisacus	4.36	5	3.19	
Penaeus brasiliensis	4.36	95	3.19	755
Acanthostracion quadricornis	3.02	38	2.80	
Pristipomoides macrophthalmaus	3.55	55	2.60	
Diplectrum formosum	3.27	44	2.39	
Sphyræna guachancho	2.73	5	2.00	
Mustelus higmani	2.73	5	2.00	
Porichthys pauciradiatus	2.18	90	1.60	
Synodus sp	1.64	11	1.20	
Diplectrum bivittatum	1.53	125	1.12	
Echeneis ferox	1.45	2	1.06	
Lutjanus purpureus	1.45	2	1.06	
Loligo plei	1.36	38	1.00	
Scorpaena isthmensis	0.82	27	0.60	
Serranus phoebe	0.71	38	0.52	
Synodus sp	0.55	71	0.40	
Pomacanthus arcuatus	0.55	16	0.40	
Lepophidium profundorum	0.11	5	0.08	
Sardinella aurita	0.11	5	0.08	
Prionotus roseus	0.05	5	0.04	
Decapterus punctatus	0.05	5	0.04	
NETTASTOMATIDAE	0.00	5		
Bothus lunatus	0.00	11		
Cantharhines sp	0.00	11		
CYNOGLOSSIDAE	0.00	5		
LABRIDAE	0.00	5		
Total	136.64		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	23.60	892	22.06	
Haemulon aurolineatum	22.40	300	20.93	
Dactylopterus volitans	6.20	68	5.79	
Synodus sp	6.00	524	5.61	
Upeneus parvus	6.00	196	5.61	
Lutjanus synagris	6.00	20	5.61	
Haemulon boschmae	4.00	832	4.49	
Penaeus brasiliensis	4.40	78	4.11	759
Priacanthus arenatus	4.40	24	4.11	
Acanthostracion quadricornis	3.40	44	3.18	
Diplectrum formosum	3.20	64	2.99	
Orthopristia ruber	2.00	40	2.62	
Pristipomoides macrophthalmaus	2.40	284	2.24	
Haemulon staidachneri	1.80	4	1.60	
Chloroscombrus chrysurus	1.60	28	1.50	
Scomberomorus brasiliensis	1.50	2	1.40	
Lepophidium profundorum	1.40	172	1.31	
Rhinobatos pacificus	1.00	2	0.93	
Laeocephalus laevigatus	0.80	116	0.75	
Loligo plei	0.60	96	0.56	
Porichthys pauciradiatus	0.40	40	0.37	
Decapterus punctatus	0.40	20	0.37	
Chilomycterus antillarum	0.40	4	0.37	
Lutjanus purpureus	0.40	12	0.37	
Penaeus notialis	0.20	2	0.19	
Ophidion sp.	0.20	16	0.19	
Prionotus punctatus	0.20	36	0.19	
Decapterus macarellus	0.20	44	0.19	
Rhomboplites aurorubens	0.20	32	0.19	
Penaeus subtilis	0.10	2	0.09	
Shrimps, small, non comm.	0.00			
EXOCETIDAE	0.00	4		
Trichopsetta sp	0.00	4		
Symphurus plagiatus	0.00	4		
Serranus phoebe	0.00	12		
Prionotus sp	0.00	20		
Opisthonema oglinum	0.00	4		
Sardinella aurita	0.00	12		
Diplectrum radiale	0.00	12		
Total	107.00		100.00	

PROJECT STATION: 937
 DATE: 1/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 646 Long W 5603
 start stop duration
 TIME : 21:37 22:07 30 (min) Purpose code: 3
 LOG : 5391.70 5393.30 1.60 Area code : 1
 PDEPTH: 42 45 GearCond.code: 1
 BDEPTH: 42 45 Validity code: 1
 Towing dir: 130° Wire out: 200 m Speed: 3 kn*10
 Sorted: 29 Kg Total catch: 45.85 CATCH/HOUR: 91.70

PROJECT STATION: 939
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 642 Long W 5530
 start stop duration
 TIME : 03:17 03:47 30 (min) Purpose code: 3
 LOG : 5440.40 5442.20 1.80 Area code : 1
 PDEPTH: 39 38 GearCond.code: 1
 BDEPTH: 39 38 Validity code: 1
 Towing dir: 9° Wire out: 200 m Speed: 3 kn*10
 Sorted: 32 Kg Total catch: 58.60 CATCH/HOUR: 117.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	40.50	2172	44.17	
Eucinostomus gula	13.80	384	26.95	
Haemulon boschmae	6.60	654	7.20	
Pristipomoides macrophthalmaus	5.10	208	5.56	
Lepophidium profundorum	3.30	292	3.60	
Penaeus brasiliensis	2.70	64	2.94	757
Loligo plei	2.40	70	2.62	
Synodus sp	2.40	216	2.62	
Rhinobatos pacificus	2.40	4	2.62	
Acanthostracion quadricornis	2.40	24	2.62	
Porichthys pauciradiatus	2.10	132	2.29	
Chloroscombrus chrysurus	1.80	36	1.96	
Rhomboplites aurorubens	1.20	96	1.31	
Synodus sp	0.90	6	0.98	
Dactylopterus volitans	0.90	18	0.98	
Aluterus sp	0.80	4	0.87	
Decapterus punctatus	0.60	28	0.65	
Serranus atrobranchius	0.46	36	0.50	
CRABS	0.30		0.33	
Shrimps, small, non comm.	0.30		0.33	
Penaeus notialis	0.26	4	0.28	750
Arisoana sp.	0.18	12	0.20	
Prionotus sp	0.16	4	0.17	
Sardinella aurita	0.10	6	0.11	
Penaeus subtilis	0.04	2	0.04	
Scorpaena sp.	0.00	4		
Diplectrum bivittatum	0.00	4		
Lepophidium pheromystax	0.00	6		
Total	91.70		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	39.60	2022	33.79	761
Eucinostomus argenteus	38.40	1018	32.76	762
Chloroscombrus chrysurus	7.20	164	6.14	
Rhizoprionodon porosus	5.80	12	4.95	
Lutjanus synagris	4.40	12	3.75	
Loligo plei	3.20	40	2.73	
Dactylopterus volitans	2.80	20	2.39	
Pristipomoides macrophthalmaus	2.20	92	1.88	
Diplectrum formosum	2.00	36	1.71	
Synodus sp	1.40	128	1.19	
Penaeus brasiliensis	1.40	28	1.19	760
Scorpaena agassizi	1.20	4	1.02	
Diplectrum radiale	1.20	28	1.02	
Rhomboplites aurorubens	1.20	24	1.02	
Decapterus punctatus	1.20	40	1.02	
Diplectrum bivittatum	0.80	4	0.68	
Eucinostomus gula	0.40	4	0.34	
Echeneis naucrates	0.40	4	0.34	
Decapterus macarellus	0.40	36	0.34	
Prionotus punctatus	0.40	12	0.34	
Opisthonema oglinum	0.40	4	0.34	
Priacanthus arenatus	0.40	16	0.34	
Ophidion sp.	0.20	8	0.17	
Lepophidium profundorum	0.20	36	0.17	
Serranus phoebe	0.20	16	0.17	
Haemulon boschmae	0.20	36	0.17	
Chilomycterus antillarum	0.00	4		
Gymnothorax ocellatus	0.00	4		
CONGRIDAE	0.00	4		
Porichthys pauciradiatus	0.00	12		
Scorpaena sp.	0.00	4		
Loligo surinamensis	0.00	12		
Prionotus sp	0.00	8		
Sphoeroides testudineus	0.00	16		
Total	117.20		99.96	

PROJECT STATION: 940
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 623 Long W 5525
 start stop duration
 TIME : 05:40 06:18 30 (min) Purpose code: 3
 LOG : 5462.20 5463.40 1.20 Area code : 1
 PDEPTH: 31 31 GearCond.code: 1
 BDEPTH: 31 31 Validity code: 1
 Towing dir: 340° Wire out: 150 m Speed: 2 kn*10
 Sorted: 5 Kg Total catch: 1110.65 CATCH/HOUR: 2221.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis surystole	1311.60	396530	59.05	
Chirocentron bleakerianus	437.20	149268	19.68	
Sphyræna guachancho	142.80	304	6.43	764
Selene setapinnis	97.20	486	4.38	
Scomberomorus cavalla	88.00	26	3.96	765
Lutjanus synagris	52.40	150	2.36	763
Rhizoprionodon porosus	21.80	28	0.98	
Scomberomorus brasiliensis	15.80	14	0.71	766
Trichiurus lepturus	14.00	20	0.63	
Cynoscion jamaicensis	10.80	54	0.49	
Dactylopterus volitans	10.80	54	0.49	
Opisthonema oglinum	6.20	1874	0.28	
Sphyrna tiburo	5.80	2	0.25	
Selene vomer	4.00	2	0.18	
Pomatomus saltatrix	1.60	2	0.07	
Microgogonias furnieri	1.30	2	0.06	
Scomberomorus brasiliensis	0.00	624		
Anchoa cubana	0.00	2498		
Anchoa filifera	0.00	8120		
Total	2221.30		100.01	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 941
 start stop duration POSITION: Lat N 615
 TIME : 07:48 08:18 30 (min) Purpose code: 3 Long W 5522
 LOG : 5478.40 5479.70 1.30 Area code : 1
 FDEPTH: 17 17 GearCond. code: 1
 BDEPTH: 17 17 Validity code: 1
 Towing dir: 278° Wire out: 100 m Speed: 3 kn*10
 Sorted: 28 Kg Total catch: 247.38 CATCH/HOUR: 494.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Macrodon ancylodon	60.20	686	12.17	
Odontognathus mucronatus	54.60	3666	11.04	
Trichurus lepturus	40.60	2498	8.21	
Bagre bagre	40.60	252	0.21	
Anchoa spinifer	35.00	1484	6.23	
Isopisthus parvipinnis	30.80	2156	5.66	
Pellona harroweri	28.00	1730	5.66	
Stallifer sp	28.00	20	5.66	
Chaetodipterus faber	26.50	126	5.38	
Selene setapinnis	17.10	7016	3.46	
Anchoviella lepidentostole	16.80	266	3.40	
Pepilus paru	14.00	18	2.83	
Selene vomer	13.80	0	2.79	
Cynoscion virescens	13.70	4620	2.77	
Anchoa filifera	11.60	12	2.34	
Oligoplites saliens	6.30	266	1.27	
Lycoargulus grossidens	5.60	42	1.13	
Hemicaranx amblyrhynchus	4.90	126	0.99	
Harengula jaguana	4.00	2	0.81	
Caranx hippos	2.20	4	0.44	
Rhisoprionodon porosus	1.40	14	0.28	
Sphyræna quachancho	0.70	112	0.14	
Selene vomer	0.70	14	0.14	
Micropogonias furnieri	0.70	14	0.14	
Conodon nobilis	0.58	38	0.12	
Peneaus subtilis	0.28	58	0.06	
Xiphopeneaus kroyeri	0.00	342		
Chirocentron bleekermanus	0.00	514		
Engraulis eurystole				
Total	494.76		100.02	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 944
 start stop duration POSITION: Lat N 611
 TIME : 12:07 12:37 30 (min) Purpose code: 3 Long W 5546
 LOG : 5506.00 5507.20 1.20 Area code : 1
 FDEPTH: 22 22 GearCond. code: 1
 BDEPTH: 22 22 Validity code: 1
 Towing dir: 238° Wire out: 150 m Speed: 3 kn*10
 Sorted: 80 Kg Total catch: 314.50 CATCH/HOUR: 629.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pellona harroweri	177.60	31376	28.24	
Anchoa filifera	62.80	18660	9.98	
Harengula jaguana	59.20	2812	9.41	
Pepilus paru	56.00	1252	9.03	
Oligoplites saliens	53.20	64	8.46	
Anchoviella lepidentostole	44.40	18648	7.06	
Chaetodipterus faber	36.20	16	5.76	
Scorpaenomorbus brasiliensis	30.80	32	4.90	
Bagre bagre	20.00	32	3.18	
Anchoa spinifer	14.00	4070	2.35	
Cynoscion acoupa	14.40	408	2.29	
Cynoscion virescens	11.00	10	1.75	
Scorpaenomorbus cavalla	10.20	8	1.62	
Chirocentron bleekermanus	6.50	1258	1.05	
Hemicaranx amblyrhynchus	6.00	96	0.95	
Trichurus lepturus	4.80	32	0.76	
Rhisoprionodon porosus	4.20	6	0.67	
Cynoscion jamaicensis	3.70	148	0.59	
Polydactylus virginicus	3.20	32	0.51	
Solanias juveniles	3.00	1184	0.48	
Peneaus subtilis	2.10	140	0.33	770
Scorpaenidae corvinaeformis	1.20	16	0.19	
Paralichthys brasiliensis	0.80	148	0.13	
Lycoargulus grossidens	0.80	74	0.13	
Anchoa sp	0.80	44	0.13	
Selene vomer	0.40	74	0.06	
Ancheneis remora	0.08	4	0.01	
Echeneis lyolepis	0.00	148		
Total	629.08		100.02	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 942
 start stop duration POSITION: Lat N 615
 TIME : 09:12 09:42 30 (min) Purpose code: 3 Long W 5522
 LOG : 5487.40 5488.70 1.30 Area code : 1
 FDEPTH: 24 24 GearCond. code: 1
 BDEPTH: 24 24 Validity code: 1
 Towing dir: 278° Wire out: 100 m Speed: 3 kn*10
 Sorted: 122 Kg Total catch: 122.55 CATCH/HOUR: 245.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus synagris	112.00	126	45.70	767
Orthopristis ruber	30.00	180	12.24	769
Scorpaenomorbus brasiliensis	30.00	38	12.24	768
Sphyrna lewini	22.40	10	9.14	
Sphyræna quachancho	13.60	16	5.22	
Oligoplites saliens	12.80	6	2.20	
Pomatomus saltatrix	5.40	6	1.63	
Rhisoprionodon porosus	4.00	10	1.39	
Selene setapinnis	3.40	20	1.22	
Selene vomer	3.00	2	1.22	
Scorpaenomorbus cavalla	3.00	2	0.98	
Sphyrna tyaana	2.40	16	0.98	
Selene vomer	2.40	6	0.98	
Mustelus higmani	2.40	6	0.98	
Opisthonema oglinum	0.70	4	0.29	
Total	245.10		100.00	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 945
 start stop duration POSITION: Lat N 614
 TIME : 13:27 13:57 30 (min) Purpose code: 3 Long W 5556
 LOG : 5514.80 5516.00 1.20 Area code : 1
 FDEPTH: 25 25 GearCond. code: 1
 BDEPTH: 25 25 Validity code: 1
 Towing dir: 286° Wire out: 150 m Speed: 2 kn*10
 Sorted: 42 Kg Total catch: 58.79 CATCH/HOUR: 117.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chaetodipterus faber	49.20	170	41.84	
Scorpaenomorbus brasiliensis	30.30	34	25.77	
Scorpaenomorbus cavalla	14.10	12	11.99	
Sphyræna lewini	7.80	12	6.63	
Oligoplites saliens	6.80	28	5.87	
Hemicaranx amblyrhynchus	3.60	28	3.06	
Prionotus punctatus	3.00	18	2.55	
Selene spixii	1.50	10	1.28	
Trichurus lepturus	0.60	4	0.51	
Loligo plei	0.30	12	0.26	
Harengula jaguana	0.14	4	0.12	
Pellona harroweri	0.14	4	0.12	
Arius proops	0.00	4	0.12	
Lolliguncula brevis	0.00	22		
Total	117.58		100.00	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 943
 start stop duration POSITION: Lat N 617
 TIME : 10:50 11:20 30 (min) Purpose code: 3 Long W 5542
 LOG : 5498.60 5500.00 1.40 Area code : 1
 FDEPTH: 26 26 GearCond. code: 1
 BDEPTH: 26 26 Validity code: 1
 Towing dir: 210° Wire out: 150 m Speed: 3 kn*10
 Sorted: 18 Kg Total catch: 18.59 CATCH/HOUR: 37.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scorpaenomorbus cavalla	7.40	6	19.90	
Hemicaranx amblyrhynchus	5.40	52	14.52	
Oligoplites saliens	4.60	10	12.37	
Scorpaenomorbus brasiliensis	4.60	8	12.37	
Lutjanus synagris	4.00	2	10.76	
Loligo plei	2.40	528	6.46	
Dasyatis americana	1.40	2	3.77	
Conodon nobilis	1.40	4	3.23	
Sphyræna quachancho	1.20	4	2.96	
Trichurus lepturus	1.10	2	2.96	
Prionotus punctatus	0.80	4	2.15	
Mustelus higmani	0.80	2	2.15	
Engraulis eurystole	0.54	202	1.45	
Synodus foetens	0.50	10	1.34	
Cynoscion acoupa	0.40	2	1.08	
Pepilus paru	0.34	10	0.91	
Anchoa hepsetus	0.14	62	0.38	
Chloroscombrus chrysurus	0.12	32	0.32	
Lutjanus synagris	0.02	2	0.05	
Anchoviella lepidentostole	0.02	0	0.05	
Total	37.18		99.99	

DATE: 2/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 946
 start stop duration POSITION: Lat N 605
 TIME : 15:01 15:31 30 (min) Purpose code: 3 Long W 5600
 LOG : 5526.00 5527.20 1.20 Area code : 1
 FDEPTH: 20 20 GearCond. code: 1
 BDEPTH: 20 20 Validity code: 1
 Towing dir: 200° Wire out: 100 m Speed: 2 kn*10
 Sorted: 9 Kg Total catch: 240.58 CATCH/HOUR: 481.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa hepsetus	102.00	80580	21.20	
Anchoviella lepidentostole	68.00	19126	14.13	
Chaetodipterus faber	44.20	28	9.19	
Trichurus lepturus	43.20	912	8.98	
Mobula sp.	40.00	2	8.31	
Chirocentron bleekermanus	27.20	5100	5.65	
Scorpaenomorbus brasiliensis	22.40	36	4.66	
Pepilus paru	20.40	312	4.24	
Cynoscion acoupa	14.40	48	2.99	
Oligoplites saliens	14.20	24	2.95	
Cynoscion virescens	14.00	8	2.91	
Anchoa filifera	11.90	2380	2.47	
Arius grandicaesus	8.40	12	1.75	
Rhinoptera bonasus	8.00	2	1.66	
Harengula jaguana	7.20	356	1.50	
Anchoa spinifer	6.80	1020	1.41	
Pellona harroweri	6.80	850	1.41	
Xiphopeneaus kroyeri	5.10	1020	1.06	
Lolliguncula brevis	5.10	2380	1.06	
Gymnura sp.	4.00	2	0.83	
Dactylopterus volitans	3.60	12	0.75	
Dasyatis guttata	2.00	2	0.42	
Odontognathus mucronatus	1.70	170	0.35	
Peneaus subtilis	0.56	90	0.12	771
Total	481.16		100.00	

PROJECT STATION: 947
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 605 Long W 5610
 start stop duration Purpose code: 3
 TIME : 16:24 16:54 30 (min) Area code : 1
 LOG : 5535.50 5537.00 1.50 GearCond.code: 1
 FDEPTH: 20 20 Validity code: 1
 DDEPTH: 20 20
 Towing dir: 270° Wire out: 100 m Speed: 3 kn*10
 Sorted: 9 Kg Total catch: 261.83 CATCH/HOUR: 523.66

PROJECT STATION: 950
 DATE: 3/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 657 Long W 5630
 start stop duration Purpose code: 3
 TIME : 01:10 01:40 30 (min) Area code : 1
 LOG : 5612.00 5614.00 1.20 GearCond.code: 1
 FDEPTH: 50 42 Validity code: 1
 DDEPTH: 50 42
 Towing dir: 305° Wire out: 250 m Speed: 2 kn*10
 Sorted: 68 Kg Total catch: 168.59 CATCH/HOUR: 337.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa hepsetus	89.40	31112	17.07	
Anchoa filifera	71.60	26134	13.67	
Anchoa spinifer	47.70	8944	9.11	
Trichurus lepturus	37.00	7514	7.22	
Pellona harroweri	37.00	2504	7.22	
Macrondon ancylodon	37.80	140	7.22	
Chaetodipterus faber	30.80	16	5.88	
Chirocentron bleakerianus	29.20	5606	5.58	
Scomberomorus brasiliensis	25.00	34	4.77	
Peprilus paru	14.00	154	2.67	
Dasyatis guttata	12.00	2	2.67	
Ilarengula jaguana	12.00	596	2.29	
Trachinotus carolinus	9.00	28	1.87	
Menticirrhus americanus	9.80	20	1.76	
Sphyrna tiburo	9.20	2	1.60	
Pollona harroweri	8.40	210	1.60	
Micropogonias furnieri	6.40	10	1.22	
Sciaenidae juveniles	4.80	716	0.92	
Lolliguncula brevis	4.80	1432	0.92	
Penaeus subtilis	3.00	176	0.73	772
Ctenosciaena gracilicirrhus	3.60	120	0.69	
Lycengraulis grossidens	3.60	238	0.69	
Oligoplites saliens	3.40	4	0.64	
Bagre bagre	3.36	14	0.64	
Cynoscion virescens	2.40	2	0.46	
Hemicaranx amblyrhynchus	1.40	14	0.27	
Selene vomer	1.20	120	0.23	
Total	523.06		99.89	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	132.00	1796	39.15	
Eucinostomus argenteus	33.60	638	9.97	
Lutjanus synagris	28.80	84	8.54	
Balistes caprisaur	27.00	24	8.01	
Rhomboplites aurorubens	25.20	324	7.47	778
Lutjanus griseus	13.00	2	3.86	
Lutjanus purpurus	12.40	16	3.68	
Chloroscombrus chrysurus	10.00	222	2.97	
Upeneus parvus	9.00	156	2.67	
Acanthostracion quadricornis	8.40	78	2.49	
Lutjanus apodus	8.40	4	2.49	
Calamus pennatula	4.80	6	1.42	
Priacanthus arenatus	4.40	66	1.00	
Haemulon plumieri	3.00	6	0.89	
Balistes vetula	2.70	6	0.80	
Sardinella aurita	1.80	48	0.53	
Penaeus brasiliensis	1.40	12	0.42	
Syacium papillosum	1.20	12	0.36	
Synodus sp	1.20	48	0.36	
Pseudupeneus maculatus	1.00	12	0.30	
Diplectrum sp	0.90	66	0.27	
Holocentrus adscensionis	0.90	6	0.27	
Decapterus punctatus	0.80	42	0.24	
Myripristis jaobus	0.72	42	0.21	
Prionotus punctatus	0.60	12	0.18	
Haemulon boschmae	0.60	132	0.18	
Dactylopterus volitans	0.60	12	0.18	
Pristipomoides macrophthalmus	0.60	150	0.18	
Sphoeroides sp	0.36	6	0.11	
Diplectrum formosum	0.30	6	0.09	
Diplectrum radiale	0.30	60	0.09	
EXOCETIDAE	0.30	36	0.09	
Decapterus macarellus	0.18	24	0.05	
Lepophidium pheromystax	0.18	102	0.05	
Saurida sp	0.12	96	0.04	
Haemulon steindachneri	0.12	6	0.04	
Lepophidium profundorum	0.06	36	0.02	
Porichthys pauciradiatus	0.06	78	0.02	
Prionotus sp	0.06	18	0.02	
Serranus sp	0.04	6	0.01	
Sorranus phoebo	0.02	6	0.01	
Loligo plei	0.00	6		
Synodus intermedius	0.00	6		
Total	337.12		100.03	

PROJECT STATION: 948
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 605 Long W 5615
 start stop duration Purpose code: 3
 TIME : 17:35 18:05 30 (min) Area code : 1
 LOG : 5542.40 5544.30 1.90 GearCond.code: 1
 FDEPTH: 18 19 Validity code: 1
 DDEPTH: 18 19
 Towing dir: 90° Wire out: 150 m Speed: 3 kn*10
 Sorted: 31 Kg Total catch: 478.45 CATCH/HOUR: 956.90

PROJECT STATION: 951
 DATE: 3/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 703 Long W 5638
 start stop duration Purpose code: 3
 TIME : 02:35 03:05 30 (min) Area code : 1
 LOG : 5621.70 5622.80 1.10 GearCond.code: 1
 FDEPTH: 49 48 Validity code: 1
 DDEPTH: 49 48
 Towing dir: 305° Wire out: 250 m Speed: 2 kn*10
 Sorted: 45 Kg Total catch: 170.06 CATCH/HOUR: 340.12

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	299.00	1854	31.25	
Inopisthus parvipinnis	150.00	3702	15.76	
Stellifer microps	93.60	3210	9.78	
Odontognathus mucronatus	70.20	11480	7.34	
Dasyatis guttata	54.00	20	5.64	
Colomesus sp	44.20	52	4.62	
Scomberomorus brasiliensis	39.00	52	4.08	776
Peprilus paru	20.80	182	2.17	
Nebria microps	20.80	52	2.17	
Genyotremus luteus	20.80	156	2.17	
Ctenosciaena gracilicirrhus	16.20	78	1.90	
Trachinotus carolinus	18.20	130	1.90	
Larimus broviceps	15.60	104	1.63	
Bagre bagre	15.60	52	1.63	
Trichurus lepturus	15.60	1014	1.63	
Cynoscion virescens	15.00	20	1.57	775
Chaetodipterus faber	14.00	10	1.46	
Penaeus subtilis	5.60	310	0.59	773
Micropogonias furnieri	5.40	10	0.56	
Paralanchurus elegans	5.20	52	0.54	
Anchoa spinifer	5.20	598	0.54	
Gymnura micrura	4.60	2	0.48	
Rhizophronodon porosus	2.40	4	0.25	
Trachinotus carolinus	2.20	2	0.23	
Xiphopenaeus kroyeri	0.80	106	0.08	774
Penaeus schmitti	0.10	2	0.01	
Total	956.90		99.98	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	104.40	1412	30.70	
Lutjanus purpurus	34.20	102	10.06	
Lutjanus synagris	31.60	82	9.29	
Priacanthus aronatus	27.20	318	8.00	
Chloroscombrus chrysurus	21.00	264	6.17	
Eucinostomus argenteus	18.60	312	5.47	
Haemulon steindachneri	15.00	228	4.41	
Acanthostracion quadricornis	9.60	60	2.82	
Upeneus parvus	8.40	18	2.47	
Rhomboplites aurorubens	7.20	108	2.12	
Pristipomoides macrophthalmus	7.20	174	2.12	779
Pomacanthus arcuatus	5.70	36	1.76	
Balistes caprisaur	4.20	2	1.23	
Aluterus haudelotii	3.90	18	1.15	
Dactylopterus volitans	3.60	40	1.06	
Synodus sp	3.60	102	1.06	
Diplectrum formosum	3.60	54	1.06	
Trachurus lathami	3.30	12	0.97	
Scyllarides dalfosi	3.00	6	0.88	
Decapterus punctatus	3.00	30	0.88	
Pseudupeneus maculatus	3.00	30	0.88	
Synodus intermedius	2.40	18	0.71	
Cynoscion acoupa	2.10	6	0.62	
Sphyrna guachancho	1.80	6	0.53	
Haemulon boschmae	0.90	156	0.26	
Loligo plei	0.60	24	0.18	
Lepophidium pheromystax	0.60	108	0.18	
Saurida normani	0.60	192	0.18	
Diplectrum bivittatum	0.60	36	0.18	
Sphoeroides testudineus	0.60	24	0.18	
Diplectrum radiale	0.30	72	0.09	
Chaetodon sp	0.30	6	0.09	
Prionotus punctatus	0.30	24	0.09	
Sorranus isthmensis	0.30	12	0.09	
Serranus sp	0.30	12	0.09	
Calamus pennatula	0.30	12	0.09	
Calamus penna	0.30	6	0.09	
Sphoeroides nefelus	0.30	6	0.09	
Syacium micrurus	0.12	12	0.04	
Penaeus brasiliensis	0.10	18	0.04	
Lepophidium profundorum	0.00	30	0.03	
EXOCETIDAE	0.00	6		
Epinephelus sp	0.00	6		
Porichthys sp	0.00	18		
Total	340.12		100.05	

PROJECT STATION: 949
 DATE: 2/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 630 Long W 5608
 start stop duration Purpose code: 3
 TIME : 21:01 21:31 30 (min) Area code : 1
 LOG : 5573.40 5574.60 1.20 GearCond.code: 1
 FDEPTH: 30 30 Validity code: 1
 DDEPTH: 30 30
 Towing dir: 306° Wire out: 150 m Speed: 2 kn*10
 Sorted: 10 Kg Total catch: 56.92 CATCH/HOUR: 113.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus gula	22.30	1486	19.59	
Saurida sp	14.80	1616	13.00	
Lutjanus synagris	14.80	72	13.00	777
Lepophidium profundorum	9.30	780	8.17	
Upeneus parvus	9.30	298	8.17	
Diplectrum formosum	6.80	276	5.97	
Haemulon boschmae	6.10	1078	5.09	
Porichthys pauciradiatus	5.80	396	3.51	
Acanthostracion quadricornis	4.00	32	3.51	
Loligo plei	3.90	140	3.43	
Rhomboplites aurorubens	3.08	640	2.71	
Trachinotus carolinus	2.00	16	2.46	
Engraulis aurytoides	2.00	836	1.76	
Pristipomoides macrophthalmus	1.80	130	1.58	
Decapterus punctatus	1.50	298	1.32	
Rhinobatos percellens	1.20	2	1.05	
Mustelus higmani	1.20	2	1.05	
Haemulon steindachneri	0.88	4	0.77	
Sphyrna guachancho	0.80	2	0.70	
Diplectrum radiale	0.60	30	0.53	
Oligoplites saliens	0.40	4	0.35	
Lutjanus purpurus	0.28	12	0.25	
Penaeus brasiliensis	0.12	4	0.11	
Prionotus rosus	0.08	4	0.07	
Dactylopterus volitans	0.00	38		
Total	113.84		100.00	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 952
 start stop duration POSITION: Lat N 720
 TIME : 05:33 06:03 30 (min) Purpose code: 3 Long W 5630
 LOG :5645.10 5646.20 1.10 Area code : 1
 FDEPTH: 82 82 GearCond.code: 3
 BDEPTH: 82 82 Validity code: 1
 Towing dir: 260° Wire out: 450 m Speed: 2 kn*10

Sorted: 25 Kg Total catch: 105.65 CATCH/HOUR: 211.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	121.10 4376	57.31	780
Upeneus parvus	16.20 722	8.61	
Lutjanus auratus	17.00 2	8.05	
Lutjanus purpureus	0.40 20	3.90	781
Scomberomorus brasiliensis	8.00 2	3.79	
Loligo plei	7.00 316	3.31	
Haemulon boschmae	7.00 378	3.31	
Pristipomoides macrophthalms	6.30 134	2.98	
Sardinella aurita	6.30 148	2.98	782
Decapterus punctatus	4.90 120	2.32	
Selar crumenophthalmus	4.20 64	1.99	
Synodus foetens	2.10 28	0.99	
Priacanthus arenatus	0.00 8	0.38	
Prionotus stearnsi	0.00 8		
Total	211.30	100.00	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 953
 start stop duration POSITION: Lat N 718
 TIME : 07:25 07:55 30 (min) Purpose code: 3 Long W 5643
 LOG :5658.10 5659.40 1.30 Area code : 2
 FDEPTH: 62 61 GearCond.code: 1
 BDEPTH: 62 61 Validity code: 1
 Towing dir: 260° Wire out: 300 m Speed: 3 kn*10

Sorted: 27 Kg Total catch: 95.62 CATCH/HOUR: 191.24

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	45.00 1058	23.53	785
Priacanthus arenatus	27.60 216	14.43	
Balistes vetulus	27.00 42	14.12	
Pseudupeneus maculatus	15.00 174	8.78	786
Haemulon striatum	13.20 912	6.90	
Pomacanthus paru	12.40 6	6.48	
Lutjanus purpureus	10.00 36	5.23	784
Lutjanus synagris	7.80 16	4.00	783
Loligo plei	5.40 282	2.82	
Haemulon melanurum	5.40 18	2.82	
Calamus pinnatula	5.00 8	2.61	
Haemulon aurolineatum	4.20 36	2.20	
Haemulon boschmae	3.60 270	1.80	
Haemulon plumieri	2.40 4	1.25	
Pomacanthus arcuatus	1.00 6	0.94	
Acanthostracion polygonos	1.20 2	0.63	
Nullidichthys martinicus	1.20 18	0.63	
Acanthurus chirurgus	0.60 2	0.31	
Pristipomoides macrophthalms	0.18 6	0.09	
Equetus lanceolatus	0.12 6	0.06	
Serranus phoebe	0.12 12	0.06	
Bothus lunatus	0.12 6	0.06	
SCARIDAE	0.08 2	0.04	
Chaetodon sedentarius	0.02 2	0.01	
Total	191.24	99.96	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 954
 start stop duration POSITION: Lat N 731
 TIME : 09:20 09:33 13 (min) Purpose code: 3 Long W 5645
 LOG :5673.00 5673.60 0.60 Area code : 2
 FDEPTH: 88 87 GearCond.code: 5
 BDEPTH: 88 87 Validity code: 1
 Towing dir: 280° Wire out: 400 m Speed: 2 kn*10

Sorted: 13 Kg Total catch: 13.07 CATCH/HOUR: 60.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus purpureus	19.85 5	32.91	
Pristipomoides macrophthalms	15.69 392	26.01	
Rhomboplites aurorubens	13.38 402	22.18	
Haemulon striatum	6.00 152	9.95	
Saurida sp	2.77 42	4.59	
Dactylopterus volitans	0.92 5	1.53	
Loligo plei	0.46 32	0.76	
Apogon sp	0.46 318	0.76	
Upeneus parvus	0.46 28	0.76	
Chromis sp.	0.23 23	0.38	
Aulostomus maculatus	0.09 5	0.15	
Foriichthys sp	0.00 5		
Total	60.31	99.98	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 955
 start stop duration POSITION: Lat N 732
 TIME : 10:43 11:13 30 (min) Purpose code: 3 Long W 5655
 LOG :5683.10 5684.10 1.00 Area code : 2
 FDEPTH: 85 84 GearCond.code: 1
 BDEPTH: 85 84 Validity code: 1
 Towing dir: 200° Wire out: 400 m Speed: 2 kn*10

Sorted: 39 Kg Total catch: 79.25 CATCH/HOUR: 158.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	69.00 1364	43.53	788
Pristipomoides macrophthalms	30.00 960	18.93	789
Lutjanus purpureus	28.40 38	17.92	787
Lutjanus purpureus	13.40 2	8.45	
Upeneus parvus	4.60 132	2.90	
Trachurus lathami	4.00 90	2.52	790
Saurida sp	3.40 46	2.15	
Loligo plei	2.40 72	1.51	
Priacanthus arenatus	1.00 10	0.63	
Haemulon boschmae	0.90 34	0.57	
Haemulon striatum	0.40 8	0.25	
Dactylopterus volitans	0.30 2	0.19	
Eucinostomus gula	0.20 2	0.13	
Synodus foetens	0.20 4	0.13	
Holocentrus adscensionis	0.20 2	0.13	
Saurida sp	0.10 2	0.06	
Diplectrum bivittatum	0.00 2		
Epinephelus niveatus	0.00 2		
Serranus phoebe	0.00 2		
Total	158.50	100.00	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 956
 start stop duration POSITION: Lat N 721
 TIME : 12:45 13:15 30 (min) Purpose code: 3 Long W 5704
 LOG :5698.70 5700.10 1.40 Area code : 2
 FDEPTH: 54 53 GearCond.code: 1
 BDEPTH: 54 53 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 3 kn*10

Sorted: 34 Kg Total catch: 48.50 CATCH/HOUR: 97.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Eucinostomus argenteus	21.20 408	21.86	
Priacanthus arenatus	17.60 216	18.14	793
Loligo plei	16.80 2458	17.32	794
Hemicaranx amblyrhynchus	12.00 134	13.20	792
Upeneus parvus	6.40 102	6.60	
Scomberomorus cavalli	6.20 2	6.39	
Rhomboplites aurorubens	4.20 60	4.33	791
Pristipomoides macrophthalms	4.20 66	4.12	
Lagoccephalus laevigatus	3.20 2	3.30	
Acanthostracion quadricornis	2.40 8	2.47	
Pomacanthus arcuatus	1.00 8	1.03	
Chloroscombrus chrysurus	1.00 18	1.03	
Aluterus heudelotii	0.20 2	0.21	
Serranus sp	0.06 8	0.06	
Trachinocephalus myops	0.04 2	0.04	
Sparisoma chrysopterum	0.00 2		
GOCOEPHALIDAE	0.00 2		
Penaeus brasiliensis	0.00 2		
Total	97.10	100.10	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 957
 start stop duration POSITION: Lat N 712
 TIME : 14:26 14:56 30 (min) Purpose code: 3 Long W 5709
 LOG :5711.50 5713.20 1.70 Area code : 2
 FDEPTH: 44 42 GearCond.code: 1
 BDEPTH: 44 42 Validity code: 1
 Towing dir: 120° Wire out: 250 m Speed: 3 kn*10

Sorted: 29 Kg Total catch: 54.85 CATCH/HOUR: 109.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Upeneus parvus	24.40 208	22.24	
Loligo plei	16.80 2200	15.31	796
Rhomboplites aurorubens	15.40 180	14.04	797
Eucinostomus argenteus	13.20 192	12.03	
Haemulon aurolineatum	9.20 80	8.39	
Lutjanus purpureus	8.90 30	8.11	
Haemulon boschmae	5.40 100	4.92	795
Anisotomus virginicus	4.40 16	4.01	
Lutjanus synagris	2.40 4	2.19	
Pseudupeneus maculatus	1.60 12	1.46	
Haemulon steindachneri	1.60 12	1.46	
Haemulon plumieri	1.00 4	0.91	
Chaetodon capistratus	1.00 8	0.91	
Pomacanthus arcuatus	1.00 8	0.91	
Balistes caprisum	1.00 8	0.91	
Diplectrum formosum	0.60 4	0.55	
Pristipomoides macrophthalms	0.40 4	0.36	
Diplectrum radiale	0.40 4	0.36	
Acanthostracion quadricornis	0.40 4	0.36	
Chilomycterus ntilularum	0.40 4	0.36	
Balistes vetula	0.20 4	0.18	
Synodus sp	0.00 4		
Decapterus punctatus	0.00 8		
Total	109.70	99.97	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 958
 start stop duration POSITION: Lat N 705
 TIME : 16:00 16:30 30 (min) Purpose code: 3 Long W 5702
 LOG :5723.00 5724.70 1.70 Area code : 2
 FDEPTH: 36 36 GearCond.code: 1
 BDEPTH: 36 36 Validity code: 1
 Towing dir: 120° Wire out: 200 m Speed: 3 kn*10

Sorted: 29 Kg Total catch: 29.00 CATCH/HOUR: 58.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Loligo plei	26.20 1534	45.17	799
Eucinostomus argenteus	12.20 306	21.03	
Chloroscombrus chrysurus	7.00 150	12.07	
Sardinella aurita	3.60 1020	6.21	798
Engraulis aurysscole	2.60 3562	4.48	
Rhinobatos pacellens	1.20 6	2.07	
Trichiurus lepturus	1.10 2	1.90	
Mustelus higmani	1.00 2	1.72	
Haemulon boschmae	1.00 2	1.72	
Diplectrum radiale	0.60 4	1.03	
Fistularia petimba	0.40 2	0.69	
Cynoscion accopa	0.40 2	0.69	
Upeneus parvus	0.30 10	0.52	
Diplectrum formosum	0.20 2	0.34	
Acanthostracion quadricornis	0.20 2	0.34	
Saurida sp	0.00 4		
Total	58.00	99.98	

DATE: 3/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 959
 start stop duration POSITION: Lat N 658
 TIME : 17:25 17:35 10 (min) Purpose code: 3 Long W 5701
 LOG :5732.60 5733.80 1.20 Area code : 2
 FDEPTH: 32 32 GearCond.code: 1
 BDEPTH: 32 32 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 3 kn*10

Sorted: 30 Kg Total catch: 60.50 CATCH/HOUR: 363.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Haemulon aurolineatum	153.60 1974	42.31	800
Loligo plei	96.00 2880	26.45	801
Chloroscombrus chrysurus	18.00 372	4.96	
Trachinocephalus myops	16.80 204	4.63	
Eucinostomus gula	16.80 264	4.63	
Synodus foetens	13.20 96	3.64	
Lutjanus synagris	12.00 108	3.31	
Upeneus parvus	8.40 192	2.31	
Diplectrum formosum	6.00 72	1.65	
Rhomboplites aurorubens	4.32 324	1.19	
Haemulon steindachneri	3.00 96	0.83	
Aluterus heudelotii	3.00 12	0.83	
Calamus penna	1.80 24	0.50	
Prionotus punctatus	1.80 60	0.50	
Priacanthus arenatus	1.80 12	0.50	
Dactylopterus volitans	1.20 12	0.33	
Selar crumenophthalmus	1.08 36	0.30	
Octopus burryi	0.84 6	0.23	
Decapterus punctatus	0.84 72	0.23	
Stephanolepis hispidus	0.72 12	0.20	
Synodus poeyi	0.60 36	0.17	
Bothus ocellatus	0.60 12	0.17	
Sardinella aurita	0.60 600	0.17	
Total	363.00	100.04	

DATE: 3/11/88 GEAR TYPE: BT No:2 PROJECT STATION: 960
 start stop duration POSITION: Lat N 626
 TIME : 23:12 23:57 45 (min) Purpose code: 1 Long W 5636
 LOG : 5706.30 5708.70 2.40 Area code : 1
 FDEPTH: 7 9 GearCond.code: 1
 BDEPTH: 27 27 Validity code: 3
 Towing dir: 295° Wire out: 50 m Speed: 3 kn*10

Sorted: 32 Kg Total catch: 207.70 CATCH/HOUR: 277.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinus	135.20	115496	48.80	
Engraulis eurystole	53.60	44792	19.35	
Sardinella aurita	38.40	38400	13.86	
Loligo plei	9.60	2304	3.47	
Scomberomorus cavalla	7.60	1	2.74	
Lutjanus synagris	6.67	29	2.41	
Rhizophronodon porosus	6.13	8	2.21	
Chirocentrodon bleekeriensis	4.80	672	1.73	
Saurida sp	4.80	672	1.73	
Opisthonema oglinus	2.00	56	0.69	
Prionotus punctatus	1.92	96	0.69	
Diplectrum formosum	1.92	64	0.69	
Rhomboplites aurorubens	0.96	192	0.35	
Decapterus punctatus	0.80	80	0.29	
Trachurus lathami	0.80	8	0.29	
Sardinella aurita	0.80	8	0.29	
Upeneus parvus	0.24	8	0.09	
Chloroscombrus chrysurus	0.00	1160		
Total		277.04	100.00	

DATE: 4/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 963
 start stop duration POSITION: Lat N 630
 TIME : 09:11 09:41 30 (min) Purpose code: 3 Long W 5640
 LOG : 5844.60 5846.00 1.40 Area code : 1
 FDEPTH: 27 28 GearCond.code: 4
 BDEPTH: 27 28 Validity code: 1
 Towing dir: 217° Wire out: 150 m Speed: 3 kn*10

Sorted: 25 Kg Total catch: 25.83 CATCH/HOUR: 51.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	30.00	3676	58.07	809
Eucinostomus argenteus	6.00	284	11.61	
Hemicaranx amblyrhynchus	4.20	22	8.13	
Decapterus punctatus	4.00	560	7.74	
Echeneis naucrates	2.00	2	3.87	
Carcharhinus acronotus	1.00	2	1.94	
Diplectrum bivittatum	1.00	8	1.94	
Acanthostracion quadricornis	0.80	8	1.55	
Chilomycterus antillarum	0.60	4	1.16	
Rhomboplites aurorubens	0.46	64	0.89	
Opisthonema oglinus	0.40	4	0.77	
Haemulon boschaasi	0.32	22	0.62	
Diplectrum formosum	0.26	4	0.50	
Caiaus penna	0.22	4	0.43	
Upeneus parvus	0.22	4	0.43	
Synodus sp	0.18	6	0.35	
Total		51.66	100.00	

DATE: 4/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 961
 start stop duration POSITION: Lat N 610
 TIME : 05:34 06:04 30 (min) Purpose code: 3 Long W 5626
 LOG : 5817.30 5818.80 1.50 Area code : 1
 FDEPTH: 22 21 GearCond.code: 1
 BDEPTH: 22 21 Validity code: 1
 Towing dir: 270° Wire out: 125 m Speed: 3 kn*10

Sorted: 32 Kg Total catch: 808.85 CATCH/HOUR: 1617.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pellona harroweri	338.40	45838	20.92	
Macrondon ancyliodon	319.20	1936	19.36	
Trichiurus lepturus	223.20	936	13.80	
Isopisthus parvipinnis	219.60	7548	13.57	
Dasyatis guttata	126.00	30	7.79	
Cynoscion virescens	93.00	82	5.75	804
Scomberomorus brasiliensis	51.00	90	3.15	805
Trichiurus lepturus	39.60	3384	2.45	
Peprius paru	39.60	252	2.45	
Trachinotus cayennensis	31.80	218	1.97	
Lolligunula brevis	22.32	4068	0.93	
Rhinoptera bonasus	15.00	10	0.67	
Isopisthus parvipinnis	10.80	3168	0.67	
Bagre bagre	10.80	72	0.67	
Stellifer sp	10.80	216	0.67	
Selene spinii	10.80	576	0.67	
Anchoa mitchilli	7.92	2304	0.49	
Anchoa mitchilli	7.20	3888	0.45	
Odontognathus mucronatus	5.76	1080	0.36	
Harangula jaguana	5.04	216	0.31	
Chirocentrodon bleekeriensis	5.04	1152	0.31	
Anchoa mitchilli	5.04	648	0.31	
Penaeus subtilis	4.10	322	0.25	802
Scomberomorus cavalla	4.00	10	0.25	
Oligoplites sp	3.60	72	0.22	
Trachinotus cayennensis	3.00	2	0.19	
Gymnura micrura	3.00	10	0.19	
Scomberomorus cavalla	1.80	108	0.11	
Polydactylus virginicus	1.80	36	0.11	
Cetengrampus adenulus	1.44	72	0.09	
Genystrus lutuus	1.40	2	0.09	
Micropogonias furnieri	1.40	2	0.09	
Penaeus schmitti	0.24	4	0.01	803
Total		1617.70	100.00	

DATE: 4/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 964
 start stop duration POSITION: Lat N 621
 TIME : 10:50 11:20 30 (min) Purpose code: 3 Long W 5647
 LOG : 5857.20 5858.80 1.60 Area code : 1
 FDEPTH: 23 25 GearCond.code: 1
 BDEPTH: 23 25 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 3 kn*10

Sorted: 28 Kg Total catch: 66.44 CATCH/HOUR: 132.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chaetodipterus faber	47.60	172	35.82	
Loligo plei	18.00	1090	13.55	810
Eucinostomus argenteus	16.00	2102	12.04	
Chloroscombrus chrysurus	10.00	12	7.53	
Opisthonema oglinus	8.80	464	6.62	
Scomberomorus brasiliensis	8.32	7408	6.26	
Lutjanus synagris	7.20	10	5.42	
Diplectrum radiale	2.80	28	2.11	
Hemicaranx amblyrhynchus	2.80	20	2.11	
Engraulis eurystole	1.92	1584	1.44	
Lutjanus synagris	1.92	140	1.44	
Upeneus parvus	1.08	32	0.81	
Synodus foetens	1.00	8	0.75	
Loligo plei	0.80	352	0.60	
Opisthonema oglinus	0.40	20	0.33	
Eucinostomus argenteus	0.40	64	0.30	
Acanthostracion quadricornis	0.40	4	0.30	
Chirocentrodon bleekeriensis	0.00	64		
Scomberomorus brasiliensis	0.00	16		
Sardinella aurita	0.00	16		
Dactylopterus volitans	0.00	4		
Total		132.88	99.99	

DATE: 4/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 965
 start stop duration POSITION: Lat N 614
 TIME : 12:42 13:12 30 (min) Purpose code: 3 Long W 5659
 LOG : 5872.30 5873.80 1.50 Area code : 1
 FDEPTH: 16 18 GearCond.code: 1
 BDEPTH: 16 18 Validity code: 1
 Towing dir: 320° Wire out: 75 m Speed: 3 kn*10

Sorted: 21 Kg Total catch: 212.85 CATCH/HOUR: 425.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	67.00	630	15.74	
Dasyatis guttata	66.20	14	15.55	
Arius grandicaudus	45.20	8	10.62	
Rhinoptera bonasus	28.40	12	6.67	
Chaetodipterus faber	28.20	18	6.62	
Macrondon ancyliodon	22.00	240	5.17	
Cynoscion virescens	19.20	8	4.51	
Stellifer microps	15.40	540	3.62	
Xiphopenaus kroyeri	15.00	4330	3.52	
Isopisthus parvipinnis	14.00	2070	3.29	
Gymnura micrura	11.80	6	2.77	
Stellifer griseus	11.40	3230	2.60	
Odontognathus mucronatus	8.70	3000	2.04	
Trichiurus lepturus	8.70	1250	2.04	
Micropogonias furnieri	8.20	10	1.93	
Stellifer rastrifer	7.30	490	1.71	
Anchoa hepsetus	7.00	4760	1.64	
Nebria microps	7.00	50	1.64	
Anchoa spinifer	5.20	610	1.22	
Peprius paru	4.50	170	1.06	
Bagre bagre	4.00	20	0.94	
Larimus brevicops	4.00	20	0.94	
Penaeus subtilis	3.80	100	0.89	
Arius quadriscutis	2.60	4	0.61	
Pellona harroweri	2.40	310	0.56	
Cetengrampus pectinatus	2.40	2	0.56	
Harangula jaguana	1.70	70	0.40	
Arius proops	1.60	2	0.38	
Lolligunula brevis	1.40	350	0.33	
Nomatopalanemon schmitti	1.40	560	0.33	
Total		425.70	99.98	

DATE: 4/11/88 GEAR TYPE: BT No:1 PROJECT STATION: 962
 start stop duration POSITION: Lat N 618
 TIME : 07:12 07:44 32 (min) Purpose code: 3 Long W 5634
 LOG : 5829.40 5830.90 1.50 Area code : 1
 FDEPTH: 25 23 GearCond.code: 1
 BDEPTH: 25 23 Validity code: 1
 Towing dir: 320° Wire out: 150 m Speed: 3 kn*10

Sorted: 27 Kg Total catch: 403.50 CATCH/HOUR: 756.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	343.50	1354	45.40	806
Orthopristis ruber	285.00	3227	37.67	807
Prionotus aeneus	48.00	240	6.34	
Trichiurus lepturus	16.50	60	2.18	
Loligo plei	13.50	735	1.78	808
Haemulon steindachneri	12.00	75	1.59	
Scomberomorus brasiliensis	6.38	9	0.84	
Chaetodipterus faber	6.00	15	0.79	
Rhinobatos porcellanus	6.00	15	0.79	
Chloroscombrus chrysurus	6.00	105	0.79	
Dactylopterus volitans	4.50	15	0.59	
Scomberomorus cavalla	3.19	4	0.42	
Acanthostracion quadricornis	3.00	45	0.40	
Trachinotus cayennensis	2.25	2	0.30	
Diplectrum radiale	0.75	15	0.10	
Total		756.57	99.98	

PROJECT STATION: 966
 DATE: 4/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 628 Long W 5658
 TIME : 14:27 14:57 30 (min) Purpose code: 3
 LOG : 5885.80 5887.30 1.50 Area code : 2
 FDEPTH: 25 25 GearCond.code: 1
 BDEPTH: 25 25 Validity code: 1
 Towing dir: 265° Wire out: 150 m Speed: 3 kn*10
 Sorted: 14 Kg Total catch: 69.96 CATCH/HOUR: 139.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoa lyolepis	56.96	72294	40.71	
Eucinostomus argenteus	29.60	6136	21.15	
Opisthonema oglinum	18.40	16084	13.15	814
Chloroscobrus chrysurus	10.80	106	7.72	813
Loligo plei	5.44	768	3.89	
Chloroscobrus chrysurus	4.32	880	3.09	
Loligo plei	3.20	140	2.29	811
Lutjanus synagris	2.80	6	2.00	
Opisthonema oglinum	2.50	40	1.79	812
Diplectrum radiale	1.40	14	1.00	
Synodus sp	1.30	10	0.93	
Trichiurus lepturus	1.20	2	0.86	
Priacanthus punctatus	0.60	4	0.43	
Selene spixii	0.50	10	0.36	
Eucinostomus argenteus	0.20	2	0.14	
Peprilus paru	0.20	2	0.14	
Hemicarax amblyrhynchus	0.20	2	0.14	
Penaeus schmitti	0.20	2	0.14	
Acanthostracion quadricornis	0.10	2	0.07	
Scomberomorus sp	0.00	112		
Total		139.92	100.00	

PROJECT STATION: 969
 DATE: 4/11/88 GEAR TYPE: PT No:2 POSITION: Lat N 635 Long W 5706
 TIME : 19:12 19:42 30 (min) Purpose code: 1
 LOG : 5916.70 5918.40 1.70 Area code : 2
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 23 23 Validity code: 3
 Towing dir: 280° Wire out: 50 m Speed: 3 kn*10
 Sorted: 4 Kg Total catch: 183.04 CATCH/HOUR: 366.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoviella sp	95.60	84128	26.11	822
Anchoa lyolepis	67.20	7550	18.36	821
Chirocentrodon bleekermanus	49.10	1782	13.41	820
Opisthonema oglinum	47.10	56520	12.87	819
Anchoviella lepidontostole	38.80	16534	10.60	
Lutjanus synagris	19.20	28	5.24	818
Hemicarax amblyrhynchus	13.50	190	3.69	
Trichiurus lepturus	12.90	776	3.52	
Scomberomorus brasiliensis	6.40	12	1.75	
Trichiurus lepturus	4.00	20	1.09	
Peprilus paru	4.00	40	1.09	
Cynoscion jamaicensis	2.50	60	0.68	
Opisthonema oglinum	2.00	20	0.55	
Penaeus subtilis	1.78	148	0.49	823
Pellona harroweri	1.20	40	0.33	
Selene setapinnis	0.80	20	0.22	
Anchoa filifera	0.00	2066		
Total		366.08	100.00	

PROJECT STATION: 967
 DATE: 4/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 626 Long W 5710
 TIME : 16:00 16:30 30 (min) Purpose code: 3
 LOG : 5897.50 5898.90 1.40 Area code : 2
 FDEPTH: 20 20 GearCond.code: 1
 BDEPTH: 20 20 Validity code: 1
 Towing dir: 265° Wire out: 150 m Speed: 3 kn*10
 Sorted: 20 Kg Total catch: 131.79 CATCH/HOUR: 263.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	43.00	360	16.31	
Pellona harroweri	34.00	11900	12.90	
Odontognathus mucronatus	30.00	3750	11.38	
Anchoviella sp	22.00	1290	8.35	
Anchoviella lepidontostole	20.00	5778	7.59	
Scomberomorus brasiliensis	15.20	12	5.77	
Cynoscion virens	15.00	6	5.69	
Bagre bagre	13.00	60	4.93	
Isopisthus parvipinnis	12.00	2666	4.55	
Trichiurus lepturus	11.00	326	4.17	
Microgogonias furnieri	7.40	14	2.81	
Stellifer microps	7.20	240	2.73	
Trichiurus lepturus	6.00	1200	2.28	
Hemicarax amblyrhynchus	6.00	60	2.28	
Chaetodipterus faber	5.60	2	2.12	
Oligopistes saliens	5.60	8	2.12	
Macrondon ancylodon	2.00	40	0.76	
Hemicarax amblyrhynchus	2.00	40	0.76	
Isopisthus parvipinnis	1.70	50	0.64	
Stellifer griseus	1.60	200	0.61	
Anchoa spinifer	1.50	240	0.61	
Selene vomer	0.80	40	0.30	
Penaeus subtilis	0.42	32	0.16	
Harengula jaguana	0.40	40	0.15	
Xiphopenaeus kroyeri	0.06	14	0.02	
Total		263.58	99.99	

PROJECT STATION: 970
 DATE: 4/11/88 GEAR TYPE: PT No:2 POSITION: Lat N 656 Long W 5714
 TIME : 22:58 23:28 30 (min) Purpose code: 1
 LOG : 5946.20 5947.90 1.70 Area code : 2
 FDEPTH: 13 13 GearCond.code: 1
 BDEPTH: 28 28 Validity code: 3
 Towing dir: 143° Wire out: 50 m Speed: 3 kn*10
 Sorted: 42 Kg Total catch: 104.90 CATCH/HOUR: 209.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	100.40	83666	47.86	
Sardinella aurita	73.80	54458	35.18	824
Trachurus lachani	17.60	6800	8.39	
Hemicarax amblyrhynchus	10.00	54	4.77	
Trachinotus carolinus	5.26	26	2.51	
Rhomboplites aurorubens	1.26	106	0.60	
Loligo plei	0.50	66	0.24	
Chilomycterus antillarum	0.50	16	0.24	
Calappa sp	0.24	6	0.11	
Forichthys pauciradiatus	0.14	10	0.07	
Acanthostracion quadricornis	0.06	6	0.03	
Hesulion aurolineatum	0.04	6	0.02	
Total		209.80	100.02	

PROJECT STATION: 968
 DATE: 4/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 636 Long W 5708
 TIME : 17:30 18:00 30 (min) Purpose code: 3
 LOG : 5908.70 5910.10 1.40 Area code : 2
 FDEPTH: 23 22 GearCond.code: 1
 BDEPTH: 23 22 Validity code: 1
 Towing dir: 285° Wire out: 150 m Speed: 3 kn*10
 Sorted: 32 Kg Total catch: 252.44 CATCH/HOUR: 504.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenosciæna gracilicirrhus	182.00	1820	36.05	
Pomadourus corvinaeformis	140.00	2334	27.73	
Cynoscion scoupa	43.40	588	8.60	
Scomberomorus brasiliensis	24.60	28	4.87	816
Microgogonias furnieri	22.40	48	4.44	815
Pellona harroweri	15.40	630	3.05	
Larimus breviceps	14.00	84	2.77	
Macrondon ancylodon	8.40	70	1.66	
Hemicarax amblyrhynchus	8.40	112	1.66	
Chirocentrodon bleekermanus	7.00	1764	1.39	
Trachinotus cayennensis	4.80	4	0.95	
Paralonchurus brasiliensis	4.20	42	0.83	
Selene setapinnis	4.20	196	0.83	
Sphyræna quachancho	4.00	4	0.79	
Peprilus paru	3.50	14	0.69	
Menticirrhus americanus	3.50	28	0.69	
Chloroscobrus chrysurus	2.80	28	0.55	
Penaeus subtilis	2.52	182	0.50	817
Opisthonema oglinum	2.10	14	0.42	
Polydactylus virginicus	2.10	14	0.42	
Selene vomer	1.40	14	0.28	
Lutjanus synagris	1.20	2	0.24	
Mustelus higmani	1.00	2	0.20	
Forichthys pauciradiatus	0.84	14	0.17	
Oligopistes saurus	0.70	14	0.14	
Harengula jaguana	0.42	28	0.08	
Total		504.88	100.00	

PROJECT STATION: 971
 DATE: 5/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 642 Long W 5727
 TIME : 05:33 06:03 30 (min) Purpose code: 3
 LOG : 6010.90 6012.30 1.40 Area code : 2
 FDEPTH: 18 16 GearCond.code: 1
 BDEPTH: 18 16 Validity code: 1
 Towing dir: 305° Wire out: 100 m Speed: 3 kn*10
 Sorted: 27 Kg Total catch: 208.18 CATCH/HOUR: 416.36

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrondon ancylodon	125.00	800	30.02	825
Rhizoprionodon porosus	72.40	112	17.39	
Trichiurus lepturus	38.00	982	9.13	
Chaetodipterus faber	32.00	140	7.69	
Sphyrna tiburo	22.80	14	4.56	
Scomberomorus brasiliensis	19.00	30	4.56	826
Sphyræna quachancho	16.00	20	3.84	
Gerytæmus luteus	12.00	180	2.88	
Pellona harroweri	11.70	5598	2.81	
Odontognathus mucronatus	9.40	1882	2.26	
Sciaenidae juveniles	8.66	2700	2.08	
Anchoviella sp	6.44	6636	1.55	
Isopisthus parvipinnis	5.20	230	1.25	
Orthopristis ruber	5.00	150	1.20	
Mustelus higmani	3.40	12	0.82	
Nebria microps	3.40	10	0.82	
Cynoscion jamaicensis	3.40	50	0.82	
Diplectrum radiale	3.20	130	0.77	
Peprilus paru	3.00	20	0.72	
Hemicarax amblyrhynchus	3.00	30	0.72	
Stellifer microps	2.80	70	0.67	
Harengula jaguana	1.80	80	0.43	
Anchoviella lepidontostole	1.74	470	0.42	
Bairdiella sanctaeluciae	1.40	10	0.34	
Ctenosciæna gracilicirrhus	0.80	20	0.19	
Trichiurus lepturus	0.74	100	0.18	
Stellifer rastrifer	0.70	30	0.17	
Lycengraulis grossidens	0.60	20	0.14	
Anchoa spinifer	0.50	50	0.12	
Cynoscion virens	0.50	10	0.12	
Penaeus subtilis	0.40	54	0.10	
Pomadourus corvinaeformis	0.40	10	0.10	
Cynoscion sp	0.40	10	0.10	
Penaeus notialis	0.38	24	0.09	
Lutjanus synagris	0.20	30	0.05	
Total		416.36	100.03	

DATE: 5/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 654 Long W 5730
 start stop duration
 TIME : 07:15 07:45 30 (min) Purpose code: 3
 LOG : 6024.20 6025.70 1.50 Area code : 2
 FDEPTH: 21 22 GearCond.code: 1
 BDEPTH: 21 22 Validity code: 1
 Towing dir: 345° Wire out: 100 m Speed: 3 kn*10
 Sorted: 55 Kg Total catch: 55.59 CATCH/HOUR: 111.18

DATE: 5/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 702 Long W 5752
 start stop duration
 TIME : 11:48 12:18 30 (min) Purpose code: 3
 LOG : 6058.50 6059.90 1.40 Area code : 2
 FDEPTH: 19 18 GearCond.code: 1
 BDEPTH: 19 18 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 3 kn*10
 Sorted: 19 Kg Total catch: 183.19 CATCH/HOUR: 366.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	33.00	226	30.40	827
Scomberomorus cavalla	24.60	10	22.13	
Eucinostomus gula	8.20	378	7.38	
Dasyatis americana	8.00	2	7.20	
Caranx monoceros	7.00	8	6.30	
Chlorurus lepturus	6.00	140	5.40	
Chlorurus radiale	5.80	78	5.22	
Loligo plei	4.20	886	3.78	828
Haemulon plumieri	2.20	4	1.98	
Haemulon steindachneri	2.00	14	1.80	
Scomberomorus brasiliensis	1.60	4	1.44	
Myxeteroparcia phenax	1.40	2	1.26	
Macraron ancylodon	1.20	6	1.08	
Rhinobatos percellens	1.00	4	0.90	
Lutjanus jocu	0.80	2	0.72	
Chilomycterus antillarum	0.80	4	0.72	
Gonyatrus luteus	0.60	6	0.54	
Orthopristis ruber	0.50	10	0.45	
Synodus foetens	0.40	2	0.36	
Acanthostracion quadricornis	0.40	4	0.36	
Paralichthys tropicus	0.20	2	0.18	
Harangula jaguana	0.20	10	0.18	
Cynoscion jamaicensis	0.18	2	0.16	
Calasus penna	0.10	2	0.09	
Total	111.18		100.03	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	86.40	1728	23.58	834
Pellona harroweri	71.68	22528	19.56	837
Macraron ancylodon	22.20	156	6.06	
Pellona harroweri	20.40	888	5.57	836
Harangula jaguana	20.40	768	5.57	835
Eugeres setapinnis	20.40	108	5.57	
Dasyatis eutata	16.00	4	4.37	
Odonotognathus mucronatus	14.56	3136	3.97	
Micropogonias furnieri	14.20	28	3.88	
Ctenosciaena gracilicirrus	9.60	264	2.62	
Anchoviella sp	8.40	7672	2.29	
Hemiocharax amblyrhynchus	8.40	72	2.29	
Trichiurus lepturus	8.40	1188	2.29	
Cynoscion virescens	8.40	4	2.29	
Sciaenidae juveniles	7.84	1064	2.14	
Selene setapinnis	7.20	12	1.97	
Anchoviella lepidentostole	6.60	1456	1.53	
Sphyrna guachancho	4.10	6	1.12	
Scomberomorus cavalla	3.40	4	0.93	
Popilius paru	2.40	96	0.66	
Lycengraulis grossidens	1.92	72	0.52	
Engraulis aurystole	1.68	616	0.46	
Anchoa spinifer	1.12	224	0.31	
Ctenosciaena gracilicirrus	0.56	112	0.15	
Popilius paru	0.56	56	0.15	
Scomberomorus cavalla	0.56	56	0.15	
Lolliginoula brevis	0.00	224		
Selene vomer	0.00	12		
Total	366.38		100.00	

PROJECT STATION: 973
 DATE: 5/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 704 Long W 5733
 start stop duration
 TIME : 08:50 09:28 30 (min) Purpose code: 3
 LOG : 6037.80 6039.40 1.60 Area code : 2
 FDEPTH: 25 23 GearCond.code: 1
 BDEPTH: 25 23 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 3 kn*10
 Sorted: 43 Kg Total catch: 43.37 CATCH/HOUR: 86.74

PROJECT STATION: 976
 DATE: 6/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 707 Long W 5732
 start stop duration
 TIME : 08:15 08:45 30 (min) Purpose code: 3
 LOG : 6130.50 6140.00 1.50 Area code : 2
 FDEPTH: 24 24 GearCond.code: 1
 BDEPTH: 24 24 Validity code: 1
 Towing dir: 285° Wire out: 150 m Speed: 3 kn*10
 Sorted: 1 Kg Total catch: 15.83 CATCH/HOUR: 31.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Hemiocharax amblyrhynchus	54.00	250	61.18	829
Diplectrum radiale	5.60	60	6.46	
Eucinostomus argenteus	4.60	60	5.30	
Loligo plei	3.40	124	3.92	830
Scomberomorus brasiliensis	3.00	2	3.46	
Dasyatis americana	2.80	2	3.23	
Echinis naucrates	2.20	6	2.54	
Lutjanus synagris	2.20	78	2.54	
Scomberomorus cavalla	2.00	2	2.31	
Rhinopriodon porosus	1.80	2	2.08	
Synodus foetens	1.40	8	1.61	
Chloroscombrus chrysurus	1.20	30	1.38	
Dactylopterus volitans	1.00	4	1.15	
Rhinobatos percellens	0.80	2	0.93	
Selar crumenophthalmus	0.08	2	0.09	
Decapterus punctatus	0.06	2	0.07	
Calasus penna	0.06	2	0.07	
Hemiramphus brasiliensis	0.04	2	0.05	
Total	86.74		100.02	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	16.40	586	51.80	838
Scomberomorus cavalla	7.60	1108	24.01	839
Sardinella aurita	3.20	2948	10.11	841
Selar crumenophthalmus	1.40	54	4.42	840
Decapterus punctatus	0.72	280	2.27	
Lutjanus purpureus	0.54	12	1.71	
Eucinostomus argenteus	0.50	6	1.58	
Engraulis aurystole	0.40	780	1.26	
Diplectrum radiale	0.36	4	1.14	
Synodus poeyi	0.20	28	0.63	
Rhombohites aurorubens	0.20	16	0.63	
Lutjanus synagris	0.06	4	0.19	
Opisthonema oglinum	0.04	2	0.13	
Decapterus punctatus	0.04	4	0.13	
Chloroscombrus chrysurus	0.04	80		
Ogcocephalus vespertilio	0.00	2		
Chilomycterus antillarum	0.00	2		
Total	31.66		100.01	

PROJECT STATION: 974
 DATE: 5/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 702 Long W 5744
 start stop duration
 TIME : 10:32 11:02 30 (min) Purpose code: 3
 LOG : 6050.00 6051.50 1.50 Area code : 2
 FDEPTH: 23 23 GearCond.code: 1
 BDEPTH: 23 23 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 3 kn*10
 Sorted: 57 Kg Total catch: 57.41 CATCH/HOUR: 114.82

PROJECT STATION: 977
 DATE: 6/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 710 Long W 5726
 start stop duration
 TIME : 10:36 11:06 30 (min) Purpose code: 3
 LOG : 6155.80 6157.10 1.30 Area code : 2
 FDEPTH: 34 34 GearCond.code: 1
 BDEPTH: 34 34 Validity code: 1
 Towing dir: 290° Wire out: 200 m Speed: 3 kn*10
 Sorted: 17 Kg Total catch: 17.07 CATCH/HOUR: 34.14

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyrna guachancho	36.80	74	32.05	831
Chloroscombrus chrysurus	24.80	336	21.60	832
Conodon nobilis	12.40	44	10.88	
Sphyrna tiburo	9.20	2	8.01	
Scomberomorus cavalla	7.20	18	6.27	
Chaetodipterus faber	5.20	22	4.53	
Selene vomer	4.20	80	3.66	
Hemiocharax amblyrhynchus	3.40	12	2.96	
Monticirrus americanus	3.00	6	2.61	
Orthopristis ruber	2.00	108	1.74	
Scomberomorus brasiliensis	1.60	4	1.39	
Selene setapinnis	1.40	8	1.22	
Trachinotus corymionensis	1.00	2	0.87	
Opisthonema oglinum	0.84	2	0.73	033
Cynoscion jamaicensis	0.60	4	0.52	
Caranx hippos	0.40	2	0.35	
Lutjanus synagris	0.34	12	0.30	
Popilius paru	0.24	2	0.21	
Diplectrum radiale	0.20	2	0.17	
Loligo plei	0.00	4		
Loligo surinamensis	0.00	4		
Total	114.82		99.99	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	24.00	4440	70.30	842
Loligo surinamensis	4.40	94	12.89	843
Diplectrum radiale	2.00	12	5.86	
Synodus foetens	0.40	4	2.34	
Pistularia petimba	0.60	4	1.76	
Dactylopterus volitans	0.40	2	1.17	
Diplectrum formosum	0.40	4	1.17	
Lutjanus purpureus	0.36	4	1.05	
Lutjanus synagris	0.30	2	0.88	
Acanthostracion quadricornis	0.28	2	0.82	
Haemulon steindachneri	0.20	2	0.62	
Pennaeus brasiliensis	0.24	2	0.70	
Synodus poeyi	0.00	2	0.23	
Total	34.14		99.99	

PROJECT STATION: 978
 DATE: 6/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 732 Long W 5712
 start stop duration
 TIME : 13:38 14:08 30 (min) Purpose code: 3
 LOG : 6179.50 6180.80 1.30 Area code : 2
 FDEPTH: 59 59 GearCond.code: 1
 BDEPTH: 59 59 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 3 kn*10
 Sorted: 27 Kg Total catch: 61.12 CATCH/HOUR: 122.24

PROJECT STATION: 978
 DATE: 6/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 732 Long W 5712
 start stop duration
 TIME : 13:38 14:08 30 (min) Purpose code: 3
 LOG : 6179.50 6180.80 1.30 Area code : 2
 FDEPTH: 59 59 GearCond.code: 1
 BDEPTH: 59 59 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 3 kn*10
 Sorted: 27 Kg Total catch: 61.12 CATCH/HOUR: 122.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	72.00	1628	58.90	
Loligo plei	13.40	686	10.96	844
Prisacanthus arenatus	8.80	112	7.20	
Decapterus punctatus	6.00	256	4.91	847
Rhombohites aurorubens	5.60	108	4.58	845
Pristigaster macropthalmus	3.60	59	2.95	
Selar crumenophthalmus	2.80	52	2.29	848
Sardinella aurita	2.80	76	2.29	846
Diodon sp.	1.60	4	1.31	
Diplectrum bivittatum	1.60	16	1.31	
Pistularia petimba	1.20	4	0.90	
Chloroscombrus chrysurus	1.20	16	0.98	
Sphaeroides dorsalis	0.40	4	0.33	
Gauricia normani	0.40	24	0.33	
Acanthostracion quadricornis	0.40	4	0.33	
Aluterus monoceros	0.20	4	0.16	
Haemulon steindachneri	0.12	4	0.10	
Eucinostomus argenteus	0.08	4	0.07	
Serranus sp	0.04	4	0.03	
Haemulon boschmae	0.00	8		
Total	122.24		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	72.00	1628	58.90	
Loligo plei	13.40	686	10.96	844
Prisacanthus arenatus	8.80	112	7.20	
Decapterus punctatus	6.00	256	4.91	847
Rhombohites aurorubens	5.60	108	4.58	845
Pristigaster macropthalmus	3.60	59	2.95	
Selar crumenophthalmus	2.80	52	2.29	848
Sardinella aurita	2.80	76	2.29	846
Diodon sp.	1.60	4	1.31	
Diplectrum bivittatum	1.60	16	1.31	
Pistularia petimba	1.20	4	0.90	
Chloroscombrus chrysurus	1.20	16	0.98	
Sphaeroides dorsalis	0.40	4	0.33	
Gauricia normani	0.40	24	0.33	
Acanthostracion quadricornis	0.40	4	0.33	
Aluterus monoceros	0.20	4	0.16	
Haemulon steindachneri	0.12	4	0.10	
Eucinostomus argenteus	0.08	4	0.07	
Serranus sp	0.04	4	0.03	
Haemulon boschmae	0.00	8		
Total	122.24		100.01	

PROJECT STATION: 979
 DATE: 6/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 742 Long W 5710
 start stop duration
 TIME : 16:00 16:30 30 (min) Purpose code: 3
 LOG : 6194.90 6196.30 1.40 Area code : 2
 FDEPTH: 89 86 GearCond.code: 1
 BDEPTH: 89 86 Validity code: 1
 Towing dir: 290° Wire out: 450 m Speed: 3 kn*10
 Sorted: 27 Kg Total catch: 367.70 CATCH/HOUR: 735.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	410.80	7900	55.86	850
Rhomboplites aurorubens	91.60	1248	12.73	051
Pristigaster macropthalmus	70.20	1638	9.55	
Aricomma sp	41.60	442	5.66	
Lutjanus purpureus	32.20	56	4.38	049
Haemulon striatum	26.00	338	3.54	
Trachurus lathami	26.00	338	3.54	
Upeneus parvus	13.00	260	1.77	
Saurida normani	7.80	26	1.06	
Selar crumenophthalmus	6.50	78	0.88	
Loligo plei	2.60	260	0.35	
Decapterus punctatus	2.60	52	0.35	
Penaeus brasiliensis	1.30	52	0.18	
Ogcocephalus nasutus	1.20	2	0.16	
Prionotus punctatus	0.00	26		
Total	735.40		100.01	

PROJECT STATION: 982
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 730 Long W 5741
 start stop duration
 TIME : 07:48 08:18 30 (min) Purpose code: 3
 LOG : 6300.40 6301.90 1.50 Area code : 2
 FDEPTH: 40 37 GearCond.code: 1
 BDEPTH: 40 37 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 3 kn*10
 Sorted: 36 Kg Total catch: 36.45 CATCH/HOUR: 72.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	49.20	880	67.49	053
Hemicaranx amblyrhynchus	8.20	70	11.25	854
Chloroscombrus chrysurus	4.00	106	6.58	055
Dasyatis americana	4.00	2	5.49	
Echinops marmoratus	2.20	6	3.02	
Loligo plei	1.70	1712	2.33	856
Priacanthus arenatus	1.60	8	2.19	
Dactylopterus volitans	0.70	6	0.96	
Cynoscion jamaicensis	0.30	2	0.41	
Synodus foetens	0.20	2	0.27	
Total	72.90		99.99	

PROJECT STATION: 980
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 759 Long W 5715
 start stop duration
 TIME : 00:00 01:00 60 (min) Purpose code: 3
 LOG : 6252.40 6255.10 2.70 Area code : 2
 FDEPTH: 694 600 GearCond.code: 1
 BDEPTH: 694 600 Validity code: 1
 Towing dir: 300° Wire out: 1900 m Speed: 3 kn*10
 Sorted: 43 Kg Total catch: 43.35 CATCH/HOUR: 43.35

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Neosocopus sp	7.20	82	16.61	
Plasiopenaeus edwardsianus	6.80	95	15.69	052
Bathynomus giganteus	5.00	9	11.53	
Coelarachne occa	4.50	42	10.38	
Shrimps, small, non comm.	4.20	893	9.69	
Malacocephalus occidentalis	3.50	35	8.07	
GALATHEIDAE	3.10	90	7.15	
MURAESCIDAE	1.70	6	3.92	
Nozumia aulla	1.20	31	2.77	
Caridea	1.05	52	2.42	
Talismania sp.	1.00	16	2.31	
NETASTOMATIDAE	0.80	9	1.85	
MACROURIDAE	0.65	10	1.50	
Yarellia sp	0.60	11	1.38	
Coloconger sp	0.50	4	1.15	
Dactyloctenium viridens	0.45	11	1.04	
Honamitopus aganizii	0.40	8	0.92	
Sturnoptyx sp	0.25	3	0.58	
Chaunax pictus	0.20	1	0.46	
Epigonus macrops	0.20	5	0.46	
Peristedion ecuadorensis	0.05	2	0.12	
Rossia sp	0.00	1		
Melanostomias sp.	0.00	1		
LYCOPTERIDAE	0.00	1		
Total	43.35		100.00	

PROJECT STATION: 983
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 718 Long W 5748
 start stop duration
 TIME : 09:02 09:32 30 (min) Purpose code: 3
 LOG : 6318.20 6319.70 1.50 Area code : 2
 FDEPTH: 23 23 GearCond.code: 1
 BDEPTH: 23 23 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 3 kn*10
 Sorted: 11 Kg Total catch: 11.92 CATCH/HOUR: 23.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	8.20	898	34.40	057
Scomberomorus cavalla	7.20	2	30.20	
Diplecetrum radiale	3.20	34	13.42	
Scomberomorus brasiliensis	3.00	2	12.58	
Trachurus lathami	0.90	6	3.78	
Eucinostomus argenteus	0.68	64	2.85	
Lutjanus synagris	0.44	22	1.85	
Synodus foetens	0.20	2	0.84	
Decapterus punctatus	0.02	4	0.08	
Total	23.84		100.00	

PROJECT STATION: 984
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 717 Long W 5750
 start stop duration
 TIME : 10:30 11:09 39 (min) Purpose code: 3
 LOG : 6328.20 6330.10 1.90 Area code : 2
 FDEPTH: 23 23 GearCond.code: 1
 BDEPTH: 23 23 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 3 kn*10
 Sorted: 73 Kg Total catch: 133.50 CATCH/HOUR: 205.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	87.38	2372	42.55	860
Scomberomorus brasiliensis	30.46	66	18.73	859
Scomberomorus cavalla	14.77	15	7.19	850
Sardinella aurita	9.69	5494	4.72	863
Oligoplites saliens	8.77	11	4.27	
Anchoa hepsetus	8.54	54	4.16	
Hemicaranx amblyrhynchus	8.08	54	3.93	
Loligo plei	7.95	1572	3.87	862
Eucinostomus argenteus	4.23	269	2.06	
Rhizoprionodon porosus	3.54	2	1.72	
Opisthonema oglinum	2.52	1165	1.23	864
Opisthonema oglinum	2.05	692	1.00	861
Microgogonias furnieri	1.85	3	0.90	
Scomberomorus cavalla	1.15	117	0.56	
Selago auripinnis	1.15	55	0.56	
Loligo plei	0.97	58	0.47	
Chaetodipterus faber	0.97	3	0.47	
Chloroscombrus chrysurus	0.77	563	0.37	
Synodus foetens	0.77	8	0.37	
Diplecetrum radiale	0.62	8	0.30	
Lutjanus synagris	0.58	15	0.28	
Sphyrna guachancho	0.38	2	0.19	
Selar crumenophthalmus	0.20	8	0.10	
Total	205.39		100.00	

PROJECT STATION: 981
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 740 Long W 5735
 start stop duration
 TIME : 04:30 05:00 30 (min) Purpose code: 3
 LOG : 6204.00 6205.50 1.50 Area code : 2
 FDEPTH: 53 52 GearCond.code: 1
 BDEPTH: 53 52 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 3 kn*10
 Sorted: 21 Kg Total catch: 110.30 CATCH/HOUR: 236.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon melanurum	27.20	112	11.50	
Eucinostomus argenteus	27.20	224	11.50	
Lutjanus purpureus	22.20	48	9.38	
Pristigaster macropthalmus	19.20	1008	8.11	
Upeneus parvus	14.40	168	6.09	
Lutjanus synagris	14.40	24	6.09	
Lutjanus griseus	14.00	2	5.92	
Priacanthus arenatus	13.60	128	5.75	
Haemulon steindachneri	13.60	112	5.75	
Haemulon aurolineatum	10.40	96	4.40	
Chloroscombrus chrysurus	9.60	136	4.06	
Rhomboplites aurorubens	8.80	104	3.72	
Calamus calamus	6.00	10	2.54	
Acanthostracion quadricornis	5.60	4	2.37	
Dactylopterus volitans	4.80	40	2.03	
Acanthostracion quadricornis	4.00	64	1.69	
Fistularia petimba	3.20	16	1.35	
Serranus phoebe	3.20	112	1.35	
Haemulon boschmae	3.20	160	1.35	
Syacium micrum	1.60	24	0.68	
Opisthonema oglinum	1.20	8	0.51	
Synodus sp	1.20	8	0.51	
Decapterus punctatus	1.20	24	0.51	
Sphaeroides testaceus	0.80	24	0.34	
Lepophilidium pheromystax	0.80	64	0.34	
Prionotus roseus	0.80	40	0.34	
Decapterus macarellus	0.80	32	0.34	
Myripristis jacobus	0.80	88	0.34	
Equetus lanceolatus	0.80	24	0.34	
Diplecetrum radiale	0.80	80	0.34	
Saurida normani	0.40	40	0.17	
APOGONIDAE	0.40	56	0.17	
Penaeus brasiliensis	0.40	18	0.17	
Forlichthys pauciradiatus	0.00	16		
Serranus atrorhynchus	0.00	8		
EXOCETIDAE	0.00	24		
Total	236.60		100.05	

PROJECT STATION: 985
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 716 Long W 5809
 start stop duration
 TIME : 12:15 12:45 30 (min) Purpose code: 3
 LOG : 6339.70 6340.90 1.20 Area code : 2
 FDEPTH: 15 14 GearCond.code: 1
 BDEPTH: 15 14 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 3 kn*10
 Sorted: 116 Kg Total catch: 231.90 CATCH/HOUR: 463.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dasyatis guttata	70.00	20	15.09	
Trichurus lepturus	64.00	1298	13.80	
Cynoscion virescens	46.60	44	10.05	865
Macraron ancydon	40.60	274	8.75	868
Microgogonias furnieri	29.40	46	6.34	866
Xiphopenaeus kroyeri	27.20	6336	5.86	870
Stellifer microps	20.50	874	4.42	
Arius grandicassis	20.40	2	4.40	
Scomberomorus brasiliensis	19.00	18	4.10	867
Stellifer griseus	18.80	2376	4.05	
Cynoscion acoupa	15.84	1782	3.42	
Baize baize	12.80	60	2.76	
Odontaspis macronotus	12.40	346	2.67	
Habris microps	8.60	358	1.85	
Hemicaranx amblyrhynchus	8.24	132	1.78	869
Anchoa hepsetus	7.00	2030	1.51	
Anchoa spinifer	6.00	842	1.29	
Dasyatis geijskesi	6.00	2	1.29	
Harengula jaguana	5.94	248	1.28	
Paralichthys elegans	4.94	32	1.07	
Sciaenidae juveniles	4.80	140	1.03	
Pellona harroweri	4.46	396	0.96	
Arius proops	2.60	4	0.56	
Anchoa sp	2.48	10890	0.53	
Nematopalaemon schmitti	2.48	2822	0.53	
Arius quadriscutis	1.40	4	0.30	
Sphyrna tudes	0.80	2	0.17	
Gyanura micrura	0.60	2	0.13	
Total	463.88		99.99	

PROJECT STATION: 986
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 726 Long W 5007
 start stop duration
 TIME : 13:55 14:25 30 (min) Purpose code: 3
 LOG : 6350.90 6352.40 1.50 Area code : 2
 FDEPTH: 23 22 GearCond.code: 1
 BDEPTH: 23 22 Validity code: 1
 Towing dir: 300° Wire out: 150 m Speed: 3 kn*10
 Sorted: 17 Kg Total catch: 135.96 CATCH/HOUR: 271.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sphyræna guachancho	104.00	220	38.25	072
Chloroscombrus chrysurus	08.20	1374	32.44	074
Scomberomorus brasiliensis	43.60	70	16.03	071
Rhizoprionodon porosus	10.10	6	3.71	
Scomberomorus cavalla	8.60	6	3.16	073
Oligoplites saliens	4.20	12	1.54	
Loligo surinamensis	3.00	408	1.10	075
Hemicaranx amblyrhynchus	3.00	12	1.10	
Opisthonema oglinum	2.40	60	0.88	
Eugerres plumieri	1.80	6	0.66	
Micropogonias furnieri	1.60	2	0.59	
Loligo plei	0.60	30	0.22	
Synodus sp	0.60	12	0.22	
Harengula jaguana	0.18	6	0.07	
Sphyræna picudilla	0.04	2	0.01	
Prionotus sp	0.00	6		
Total		271.92	99.98	

PROJECT STATION: 987
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 730 Long W 5018
 start stop duration
 TIME : 15:25 15:55 30 (min) Purpose code: 3
 LOG : 6361.20 6362.20 1.00 Area code : 2
 FDEPTH: 16 16 GearCond.code: 1
 BDEPTH: 16 16 Validity code: 1
 Towing dir: 300° Wire out: 100 m Speed: 2 kn*10
 Sorted: 28 Kg Total catch: 105.40 CATCH/HOUR: 370.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Macrondon ancylodon	82.40	500	22.22	079
Trichiurus lepturus	80.00	2880	21.57	
Bagro bagro	33.00	190	8.90	
Axius grandicaassis	25.40	22	6.05	
SPHYRÆNIDAE	22.00	12	5.93	
Odontognathus mucronatus	21.00	4760	5.66	080
Scomberomorus brasiliensis	16.80	16	4.53	077
Hemicaranx amblyrhynchus	12.00	100	3.24	078
Chaetodipterus faber	11.00	4	2.97	
Anchoa mitchelli	10.00	3322	2.70	081
Isopisthus parvipinnis	8.00	890	2.16	082
Stallifer microps	0.00	400	2.16	
Pepilus paru	7.50	70	2.02	
Cynoscion virescens	7.00	6	1.89	
Anchoa mitchelli sp	4.00	3734	1.08	
Rhizoprionodon porosus	4.00	6	1.08	
Harengula jaguana	3.50	50	0.94	
Carcharhinus limbatus	3.40	2	0.92	
Stallifer griseus	3.00	190	0.81	
Anchoa spinifer	2.00	330	0.54	
Pellona narrowsi	1.50	370	0.40	
Penaeus schmitti	1.40	34	0.38	076
Xiphopenaeus kroyeri	1.00	340	0.27	
Penaeus subtilis	1.00	80	0.27	
Chloroscombrus chrysurus	0.80	10	0.22	
Cynoscion virescens	0.50	10	0.13	
Nematoplassemus schmitti	0.00	50		
Total		370.20	99.84	

PROJECT STATION: 988
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 745 Long W 5814
 start stop duration
 TIME : 17:24 17:54 30 (min) Purpose code: 3
 LOG : 6375.60 6377.20 1.60 Area code : 2
 FDEPTH: 23 23 GearCond.code: 1
 BDEPTH: 23 23 Validity code: 1
 Towing dir: 280° Wire out: 150 m Speed: 3 kn*10
 Sorted: 24 Kg Total catch: 24.22 CATCH/HOUR: 48.44

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scomberomorus cavalla	9.00	6	10.58	
Lutjanus synagris	7.20	84	14.86	083
Loligo plei	6.80	856	14.04	084
Pomatomus saltatrix	4.40	6	9.08	
Scomberomorus brasiliensis	4.20	8	8.67	
Rhizoprionodon porosus	3.40	6	7.02	
Chaetodipterus faber	3.20	16	6.61	
Selar crumenophthalmus	2.60	96	5.37	085
Lagocephalus laevigatus	2.20	2	4.54	
Priacanthus arenatus	1.40	2	2.89	
Rhinobatos percellens	1.00	2	2.06	
Sphyræna guachancho	0.80	4	1.65	
Synodus foetens	0.70	8	1.45	
Diplectrum radiale	0.30	8	0.62	
Upeneus parvus	0.16	6	0.33	
Chloroscombrus chrysurus	0.16	6	0.33	
Lutjanus purpureus	0.08	6	0.17	
Total		48.44	100.00	

PROJECT STATION: 989
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 750 Long W 5807
 start stop duration
 TIME : 19:12 19:42 30 (min) Purpose code: 3
 LOG : 6388.50 6390.00 1.50 Area code : 2
 FDEPTH: 34 31 GearCond.code: 1
 BDEPTH: 34 31 Validity code: 1
 Towing dir: 280° Wire out: 200 m Speed: 3 kn*10
 Sorted: 30 Kg Total catch: 30.53 CATCH/HOUR: 61.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. N
	weight	numbers		
Cynoscion jamaicensis	8.80	54	14.41	
Opisthonema oglinum	7.00	180	11.46	086
Eucinostomus argenteus	6.80	304	11.14	
Eucinostomus gula	5.00	110	8.19	
Ctenosciaena gracilicirrus	4.60	56	7.53	
Selar crumenophthalmus	4.40	44	7.21	
Synodus foetens	4.20	38	6.88	
Lepophidium profundorum	3.20	392	5.24	
Penaeus notialis	3.16	162	5.18	087
Hemicaranx amblyrhynchus	2.20	28	3.60	
Sphyræna guachancho	2.20	12	3.60	
Shrimps, small, non comm.	1.20	724	1.97	
Lutjanus synagris	1.20	6	1.97	
Diplectrum bivittatum	1.00	126	1.64	
Prionotus punctatus	0.80	8	1.31	
Menticirrhus americanus	0.60	4	0.98	
Loligo plei	0.50	40	0.62	
Lutjanus purpureus	0.44	108	0.72	088
Loligo surinamensis	0.40	20	0.66	
Diplectrum radiale	0.40	20	0.66	
Chloroscombrus chrysurus	0.34	20	0.66	
Serranus atrobranchus	0.34	58	0.56	
Forichthys pauciradiatus	0.30	78	0.49	
Upeneus parvus	0.30	6	0.49	
Chaetodipterus faber	0.30	2	0.49	
Echeneis naucrates	0.30	2	0.49	
Saurida brasiliensis	0.28	72	0.46	
CRABS	0.20	112	0.33	
Citharichthys spilopterus	0.20	20	0.33	
Pristipomoides macrophthalmus	0.16	62	0.26	
Diapterus rhombus	0.16	2	0.26	
Decapterus punctatus	0.04	6	0.07	
Trachurus lathami	0.04	2	0.07	
Total		61.06	100.03	

PROJECT STATION: 990
 DATE: 7/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 800 Long W 5801
 start stop duration
 TIME : 21:13 21:43 30 (min) Purpose code: 3
 LOG : 6403.70 6405.00 1.30 Area code : 2
 FDEPTH: 50 50 GearCond.code: 1
 BDEPTH: 50 50 Validity code: 1
 Towing dir: 300° Wire out: 300 m Speed: 3 kn*10
 Sorted: 27 Kg Total catch: 106.54 CATCH/HOUR: 213.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Upeneus parvus	57.40	850	26.94	089
Haemulon melanurum	20.00	102	13.14	092
Priacanthus arenatus	21.00	196	9.86	
Pristipomoides macrophthalmus	18.20	1750	8.54	
Haemulon steindachneri	16.80	162	7.88	
Lutjanus analis	13.20	20	6.19	
Haemulon aurolineatum	11.20	126	5.26	
Acanthostracion quadricornis	4.90	84	2.30	
Lutjanus synagris	3.60	10	1.69	
Diplectrum bivittatum	3.50	190	1.64	
Forichthys pauciradiatus	2.80	154	1.31	
Synodus foetens	2.80	22	1.31	
Calamus pennatula	2.80	6	1.31	
Rhomboplites aurorubens	2.80	50	1.31	
Dactylopterus volitans	2.46	120	1.18	
Serranus phoebe	2.46	8	1.15	
Balistes vetula	2.46	0	1.15	
Synodus poeyi	2.10	274	0.99	
Chloroscombrus chrysurus	1.60	28	0.79	
Spherooides sp	1.40	28	0.66	
Opisthonema oglinum	1.40	28	0.66	
Lepophidium phromomystax	1.26	92	0.59	
Penaeus brasiliensis	1.26	34	0.59	090
Brotula barbata	0.80	2	0.38	
Apogon sp	0.70	106	0.33	
Syacium papillosum	0.70	14	0.33	
Fistularia petimba	0.70	0	0.33	
Equetus lanceolatus	0.70	22	0.33	
Hemicaranx amblyrhynchus	0.56	8	0.26	
Loligo plei	0.50	0	0.23	
Lepophidium profundorum	0.42	22	0.20	
Lutjanus purpureus	0.40	2	0.19	
Ophidion holbrookii	0.36	14	0.17	
Scorpaena brasiliensis	0.36	8	0.17	
Haemulon striatum	0.36	36	0.17	
Haemulon boschmae	0.28	36	0.13	
Myripristis jacobus	0.22	14	0.10	
Monacanthus ciliatus	0.22	8	0.10	
Citharichthys spilopterus	0.14	8	0.07	
Prionotus roseus	0.08	28	0.04	
Penaeus subtilis	0.04	4	0.02	091
Total		213.08	99.99	

PROJECT STATION: 991
 DATE: 8/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 813 Long W 5816
 start stop duration
 TIME : 05:43 06:13 30 (min) Purpose code: 3
 LOG : 6470.40 6471.60 1.20 Area code : 2
 FDEPTH: 55 55 GearCond.code: 1
 BDEPTH: 55 55 Validity code: 1
 Towing dir: 280° Wire out: 300 m Speed: 2 kn*10
 Sorted: 32 Kg Total catch: 32.10 CATCH/HOUR: 64.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	11.20	1102	64.17	093
Loligo plei	11.40	1950	17.76	094
Selar crumenophthalmus	5.20	120	8.10	095
Hemicaranx amblyrhynchus	4.60	22	7.17	096
Echeneis naucrates	0.70	4	1.09	
Trichiurus lepturus	0.60	4	0.93	
Priacanthus arenatus	0.50	6	0.78	
Total		64.20	100.00	

PROJECT STATION: 992
 DATE: 0/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 803 Long W 5025
 start stop duration
 TIME : 07:48 08:18 30 (min) Purpose code: 3
 LOG : 6407.20 6408.30 1.10 Area code : 2
 FDEPTH: 40 40 GearCond.code: 1
 DDEPTH: 40 40 Validity code: 1
 Towing dir: 200° Wire out: 200 m Speed: 2 kn*10

Sorted: 24 Kg Total catch: 24.12 CATCH/HOUR: 48.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	17.40	376	36.07	897
Loligo plei	6.00	1278	12.44	898
Scomberomorus cavalla	4.40	4	9.12	
Hemicaranx amblyrhynchus	3.80	18	7.08	899
Sphyræna guachancho	2.80	12	5.80	
Eucinostomus gula	2.20	34	4.56	
Peprilus paru	2.00	12	4.15	
Selar crumenophthalmus	1.60	20	3.32	
Echeneis naucrates	1.40	4	2.90	
Eucinostomus argenteus	1.40	60	2.90	
Upeneus parvus	1.00	10	2.07	
Trachinotus cayennensis	1.00	4	2.07	
Sphyræna picudilla	1.00	4	2.07	
Lutjanus synagris	0.80	6	1.66	
Synodus foetens	0.40	2	0.83	
Diplectrum radiale	0.40	6	0.83	
Trachurus lathami	0.20	2	0.41	
Lutjanus purpureus	0.20	8	0.41	
Penaeus notialis	0.12	2	0.25	
Diapterus rhombeus	0.12	2	0.25	
Total	48.24		99.99	

PROJECT STATION: 993
 DATE: 0/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 750 Long W 5033
 start stop duration
 TIME : 10:30 11:00 30 (min) Purpose code: 3
 LOG : 6506.40 6507.40 1.00 Area code : 2
 FDEPTH: 19 18 GearCond.code: 1
 DDEPTH: 19 18 Validity code: 2
 Towing dir: 270° Wire out: 100 m Speed: 2 kn*10

Sorted: 25 Kg Total catch: 277.21 CATCH/HOUR: 554.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	139.50	1530	25.16	906
Macrion ancylodon	130.50	780	23.54	907
Cynoscion virescens	52.20	62	9.42	904
Stellifer microps	30.00	960	5.41	
Scomberomorus brasiliensis	17.40	24	3.14	902
Cynoscion scoupa	17.00	2	3.07	
Peprilus paru	16.50	90	2.98	
Chaetodipterus faber	15.00	4	2.71	
Bagre bagre	12.80	82	2.31	903
Anchoviella lepidentostole	10.50	3780	1.89	
Gymnura sp.	10.00	14	1.80	
Rhizoprionodon porosus	9.60	14	1.73	
Hebrus microps	9.00	60	1.62	
Solene vomer	8.24	16	1.49	
Chirocentron bleekeriannus	7.50	2050	1.35	
Isopisthus parvipinnis	7.50	526	1.35	
Arius quadriscutis	7.40	28	1.33	900
Arius grandicassis	7.20	42	1.30	901
Hemicaranx amblyrhynchus	6.00	60	1.08	
Conodon nobilis	6.00	16	1.00	
CONGRIDAE	4.70	2	0.85	
Harengula jaguana	3.74	46	0.67	
Oligoplites saliens	3.60	4	0.65	
Trachinotus cayennensis	3.20	4	0.58	
Xiphopenaus kroyeri	3.14	646	0.57	
Stellifer griseus	3.00	106	0.54	
Larimus breviceps	3.00	30	0.54	
Anchoviella sp	2.24	1216	0.40	
Sciaenidae juveniles	1.86	60	0.34	
Ctenosciaena gracilicirrus	1.40	16	0.25	
Penaeus notialis	1.20	96	0.22	905
Gonyatremus luteus	0.74	16	0.13	
Anchoa sp.	0.74	150	0.13	
Lycengraulis grossidens	0.74	30	0.13	
Dasyatis guttata	0.60	2	0.11	
Micropogonius furnieri	0.50	2	0.09	
Rhinoptera bonasus	0.10	2	0.02	
Penaeus schmitti	0.08	2	0.01	
Pellona harroweri	0.00	30		
Total	554.42		99.99	

PROJECT STATION: 994
 DATE: 0/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 802 Long W 5836
 start stop duration
 TIME : 12:35 13:05 30 (min) Purpose code: 3
 LOG : 6520.60 6522.10 1.50 Area code : 2
 FDEPTH: 17 18 GearCond.code: 1
 DDEPTH: 17 18 Validity code: 1
 Towing dir: 185° Wire out: 100 m Speed: 3 kn*10

Sorted: 30 Kg Total catch: 291.00 CATCH/HOUR: 582.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus brasiliensis	166.40	368	28.59	909
Sphyræna guachancho	144.00	348	24.74	911
Solene setapinnis	57.60	732	9.90	912
Scomberomorus cavalla	55.00	106	9.45	908
Cynoscion ataindennori	28.80	324	4.95	
Cynoscion leiarchus	21.60	24	3.71	
Anchoviella sp	16.80	16596	2.89	
Peprilus paru	15.60	60	2.68	
Chloroscombrus chrysurus	14.40	276	2.47	910
Chirocentron bleekeriannus	9.60	3012	1.65	
Sardinella aurita	8.40	5506	1.44	913
Rhizoprionodon porosus	8.40	12	1.44	
Conodon nobilis	7.80	24	1.34	
Opisthonema oglinum	7.20	36	1.24	
Anchoviella lepidentostole	4.80	936	0.82	
Opisthonema oglinum	4.80	5760	0.82	914
Scomberomorus cavalla	3.60	624	0.62	
Hemicaranx amblyrhynchus	3.00	12	0.52	
Ctenosciaena gracilicirrus	2.40	48	0.41	
Synodus sp	1.20	36	0.21	
Harengula jaguana	0.60	12	0.10	
Total	582.00		99.99	

PROJECT STATION: 995
 DATE: 8/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 804 Long W 5847
 start stop duration
 TIME : 14:15 14:45 30 (min) Purpose code: 3
 LOG : 6533.20 6534.60 1.40 Area code : 2
 FDEPTH: 16 14 GearCond.code: 1
 DDEPTH: 16 14 Validity code: 1
 Towing dir: 205° Wire out: 100 m Speed: 3 kn*10

Sorted: 22 Kg Total catch: 132.95 CATCH/HOUR: 265.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dasyatis guttata	34.00	16	12.79	
Chaetodipterus faber	31.20	12	11.73	
Macrion ancylodon	26.40	204	9.93	
Cynoscion virescens	22.80	24	8.57	918
Isopisthus parvipinnis	20.40	3508	7.67	915
Micropogonius furnieri	20.00	40	7.52	
Trichiurus lepturus	18.60	744	7.00	
Harengula jaguana	10.80	384	4.06	919
Hemicaranx amblyrhynchus	10.20	114	3.84	
Peprilus paru	9.60	48	3.61	
Bagre bagre	6.60	66	2.48	
Hebrus microps	6.60	24	2.48	
Gymnura micrura	6.00	10	2.26	
Cynoscion virescens	5.40	18	2.03	
Stellifer microps	5.40	282	2.03	
Elops saurus	3.80	4	1.43	
Pomatomus saltatrix	3.40	2	1.20	
Scomberomorus brasiliensis	3.20	4	1.20	
Centropomus umlicemalis	3.00	12	1.13	
Rhinobatos percellens	2.00	2	0.75	
Odontognathus mucronatus	1.80	330	0.68	
Polydactylus virginicus	1.80	6	0.68	
Anchoa sp.	1.50	18	0.56	
Stellifer griseus	1.20	18	0.45	
PNCGMULIDINAE	1.20	354	0.45	
Pellona harroweri	1.20	84	0.45	
Arius quadriscutis	1.20	12	0.45	
Penaeus subtilis	1.00	20	0.30	917
Conodon nobilis	0.90	18	0.34	
Solene setapinnis	0.90	12	0.34	
Sciaenidae juveniles	0.90	12	0.34	
Arius grandicassis	0.90	42	0.34	
Paralichthys brasiliensis	0.60	6	0.23	
Penaeus schmitti	0.60	6	0.23	916
Xiphopenaus kroyeri	0.40	30	0.15	
Lycengraulis grossidens	0.30	12	0.11	
Gonyatremus luteus	0.10	2	0.04	
Total	265.90		100.01	

PROJECT STATION: 996
 DATE: 0/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 814 Long W 5845
 start stop duration
 TIME : 15:50 16:20 30 (min) Purpose code: 3
 LOG : 6545.70 6546.80 1.10 Area code : 2
 FDEPTH: 34 35 GearCond.code: 1
 DDEPTH: 34 35 Validity code: 1
 Towing dir: 300° Wire out: 200 m Speed: 3 kn*10

Sorted: 25 Kg Total catch: 109.00 CATCH/HOUR: 218.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyræna picudilla	86.50	526	39.60	922
Rhizoprionodon porosus	55.00	76	25.23	
Dasyatis guttata	14.00	2	6.42	
Solene setapinnis	13.00	116	5.96	923
Chirocentron bleekeriannus	8.00	4994	3.67	
Scomberomorus cavalla	8.00	18	3.67	920
Trachinotus carolinus	7.00	36	3.21	
Eucinostomus argenteus	7.00	616	3.21	
Loligo plei	6.80	1956	3.12	925
Chloroscombrus chrysurus	5.50	396	2.52	924
Scomberomorus brasiliensis	4.40	6	2.02	921
Eucinostomus gula	1.00	20	0.46	
Lutjanus synagris	1.00	2	0.46	
Mustelus higmani	0.80	2	0.37	
Loligo surinamensis	0.00	6		
Caranx crysos	0.00	6		
Total	218.00		100.00	

PROJECT STATION: 997
 DATE: 0/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 820 Long W 5842
 start stop duration
 TIME : 17:29 17:59 30 (min) Purpose code: 3
 LOG : 6555.10 6556.30 1.20 Area code : 2
 FDEPTH: 37 40 GearCond.code: 1
 DDEPTH: 37 40 Validity code: 1
 Towing dir: 305° Wire out: 200 m Speed: 2 kn*10

Sorted: 60 Kg Total catch: 60.03 CATCH/HOUR: 120.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus gula	16.00	282	13.33	
Lutjanus purpureus	15.00	52	12.49	926
Scomberomorus brasiliensis	12.80	22	10.66	
Sphyræna guachancho	11.20	32	9.33	928
Pomatomus saltatrix	11.00	16	9.16	
Hemicaranx amblyrhynchus	10.20	38	8.50	930
Sphyræna picudilla	7.80	60	6.50	929
Lutjanus synagris	7.80	44	6.50	927
Rhizoprionodon porosus	7.20	4	6.00	
Synodus foetens	2.40	10	2.00	
Cynoscion jamaicensis	1.80	12	1.50	
Echeneis naucrates	1.80	8	1.50	
Dasyatis guttata	1.80	2	1.50	
Mustelus higmani	1.80	2	1.50	
Selar crumenophthalmus	1.40	10	1.17	
Chloroscombrus chrysurus	1.40	18	1.17	
Upeneus parvus	1.00	10	0.83	
Diplectrum radiale	1.00	8	0.83	
Trachinotus cayennensis	0.80	2	0.67	
Cyclopsotta chittendeni	0.80	4	0.67	
Cynoscion similis	0.80	2	0.67	
Trichiurus lepturus	0.70	2	0.58	
Priacanthus arenatus	0.50	2	0.42	
Rhombolites aurorubens	0.50	2	0.42	
Saurida brasiliensis	0.40	98	0.33	
Lagocephalus inavigatus	0.40	2	0.33	
Peprilus paru	0.40	2	0.33	
Opisthonema oglinum	0.40	6	0.33	
Dactylopterus volitans	0.36	2	0.30	
Scorpaena brasiliensis	0.24	2	0.20	
Solene setapinnis	0.20	2	0.17	
Diplectrum formosum	0.20	2	0.17	
Loligo surinamensis	0.10	4	0.08	
Diplectrum bivittatum	0.04	4	0.03	
Total	120.24		100.17	

PROJECT STATION: 990
 DATE: 0/11/00 GEAR TYPE: PT No:4 POSITION: Lat N 805 Long W 5836
 start stop duration Purpose code: 1
 TIME : 21:04 21:34 30 (min) Area code : 2
 LOG : 6583.50 6584.00 1.30 GearCond.code: 3
 FDEPTH: 0 0 Validity code: 3
 BDEPTH: 16 21
 Towing dir: 337 Wire out: 50 m Speed: 3 kn*10
 Sorted: 5 Kg Total catch: 437.97 CATCH/HOUR: 875.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	330.00	325050	37.67	934
Anchoviella sp	180.00	141840	20.55	936
Sphyrna guachancho	90.00	240	10.27	931
Opisthonema oglinum	84.00	49200	9.59	933
Anchoviella lepidontostole	45.00	9600	5.14	935
Scomberomorus brasiliensis	34.80	48	3.97	932
Trichiurus lepturus	30.60	108	3.49	
Chirocentrodon bleekorianus	30.00	4500	3.42	
Selene setapinnis	18.00	52	2.12	
Pellona harroweri	7.20	324	0.82	
Harengula jaguana	4.32	198	0.49	
Cynoscion jamaicensis	3.24	36	0.37	
Scomberomorus cavalla	3.00	300	0.34	
Scomberomorus cavalla	2.60	2	0.30	
Hemicarax amblyrhynchus	1.80	18	0.21	
Cynoscion similis	1.80	2	0.21	
Opisthonema oglinum	1.62	10	0.18	
Conodon nobilis	1.40	4	0.16	
Synodus foetens	1.26	18	0.14	
Peprilus paru	1.20	6	0.14	
Menticirrhus americanus	1.20	6	0.14	
Selene setapinnis	0.90	18	0.10	
Trachinotus cayanensis	0.60	2	0.07	
Cynoscion jamaicensis	0.40	4	0.05	
Macrodon ancylodon	0.40	2	0.05	
Total	875.94		99.99	

PROJECT STATION: 1001
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 844 Long W 5922
 start stop duration Purpose code: 3
 TIME : 07:36 08:06 30 (min) Area code : 2
 LOG : 6668.00 6669.20 1.20 GearCond.code: 3
 FDEPTH: 60 59 Validity code: 1
 BDEPTH: 60 59
 Towing dir: 295 Wire out: 350 m Speed: 2 kn*10
 Sorted: 27 Kg Total catch: 73.94 CATCH/HOUR: 147.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	100.00	694	67.62	950
Scomberomorus cavalla	16.20	14	10.95	
Rhizoprionodon porosus	7.40	8	5.00	
Sphyrna guachancho	5.60	30	3.79	951
Papilius paru	5.20	28	3.52	
Sphyrna plicudilla	4.60	24	3.11	952
Hemicarax amblyrhynchus	2.00	8	1.35	
Lutjanus purpurus	1.60	4	1.08	
Scomberomorus brasiliensis	0.86	2	0.58	
Trachinotus cayanensis	0.80	4	0.54	
Upeneus parvus	0.80	12	0.54	
Lutjanus synagris	0.70	6	0.47	
Loligo plei	0.60	52	0.41	
Saurida sp	0.52	4	0.35	
Opisthonema oglinum	0.40	12	0.27	
Loligo surinamensis	0.36	20	0.24	
Pristipomoides macrophthalmus	0.24	4	0.16	
Total	147.88		99.98	

PROJECT STATION: 1002
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 838 Long W 5936
 start stop duration Purpose code: 3
 TIME : 09:36 10:06 30 (min) Area code : 2
 LOG : 6663.00 6665.00 1.20 GearCond.code: 3
 FDEPTH: 15 15 Validity code: 1
 BDEPTH: 15 15
 Towing dir: 290 Wire out: 100 m Speed: 2 kn*10
 Sorted: 20 Kg Total catch: 382.26 CATCH/HOUR: 764.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Odontognathus mucronatus	116.40	31186	15.23	959
Macrodon ancylodon	86.80	714	11.35	
Cynoscion virescens	86.00	124	11.25	953
Trichiurus lepturus	56.00	2024	7.32	
Dasysatis geljeskoi	36.00	12	4.71	957
Rhinoptera bonasus	36.00	12	4.71	956
Isopisthus parvipinnis	33.40	2736	4.37	
Harengula jaguana	28.00	798	3.66	
Xiphopenaeus kroyeri	27.32	6764	3.57	
Bagre bagre	23.00	252	3.11	
Peprilus paru	23.00	294	3.11	
Arius grandicassius	23.60	18	3.09	
Arius quadriscutis	22.60	96	2.96	
Cynoscion acoupa	19.60	2	2.56	
Oligoplites saliens	16.80	22	2.20	
Rhizoprionodon porosus	12.80	14	1.67	
Pomatomus saltatrix	11.80	10	1.54	
Anchoa spinifer	10.92	2722	1.43	
Stallifer microps	10.50	714	1.37	
Stallifer restrifer	10.10	1862	1.32	
Carcharhinus porosus	10.00	4	1.31	
Pellona harroweri	8.02	2016	1.05	
Anchoviella lepidontostole	7.00	2560	1.02	958
Scomberomorus brasiliensis	7.60	8	0.99	
Paralonchurus brasiliensis	7.40	22	0.97	
Nebria microps	6.00	26	0.78	
Sciaenidae juveniles	5.60	252	0.73	
Butoroides surinamensis	2.60	2	0.33	
Arius sp	2.24	84	0.29	
Dasysatis guttata	2.00	2	0.26	
Gymnura micura	1.68	14	0.22	
Cynoscion virescens	1.68	42	0.22	
Micropogonias furnieri	1.60	2	0.21	
Anchoviella sp	1.56	776	0.20	
Penaeus schmitti	1.52	42	0.20	954
Sphyrna tudes	1.50	2	0.20	
Selene setapinnis	1.40	56	0.18	
Cynoscion leiarchus	0.80	2	0.10	
Lycengraulis grossidens	0.78	78	0.10	
Penaeus subtilis	0.50	30	0.07	955
Total	764.52		99.97	

PROJECT STATION: 1003
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 845 Long W 5941
 start stop duration Purpose code: 3
 TIME : 10:53 11:23 30 (min) Area code : 2
 LOG : 6691.50 6692.90 1.40 GearCond.code: 3
 FDEPTH: 29 28 Validity code: 1
 BDEPTH: 29 28
 Towing dir: 290 Wire out: 150 m Speed: 3 kn*10
 Sorted: 81 Kg Total catch: 286.40 CATCH/HOUR: 572.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selene setapinnis	148.80	1344	25.98	962
Pellona harroweri	70.80	12672	12.36	963
Cynoscion steindachneri	63.68	1296	11.12	
Rhizoprionodon porosus	30.60	40	6.74	
Peprilus paru	28.80	64	5.03	
Oligoplites saliens	26.60	112	4.64	
Trichiurus lepturus	25.60	912	4.47	
Pellona harroweri	24.80	880	4.33	960
Harengula jaguana	20.80	656	3.63	961
Odontognathus mucronatus	17.92	3392	3.13	
Micropogonias furnieri	15.00	26	2.62	
Ctenosciaena gracilicirrhus	14.40	256	2.51	
Elope saurus	14.00	12	2.44	
Pomatomus saltatrix	10.60	10	1.85	
Isopisthus parvipinnis	9.60	768	1.60	
Cynoscion virescens	8.60	10	1.50	
Anchoa spinifer	8.32	2368	1.45	
Scomberomorus brasiliensis	8.20	8	1.43	
Sphyrna guachancho	6.00	8	1.05	
Bagre marinus	3.40	2	0.59	
Chirocentrodon bleekorianus	2.40	60	0.42	
Sphyrna lewini	2.40	2	0.42	
Sphyrna tiburo	1.40	2	0.24	
Mustelus higmani	1.40	2	0.24	
Loligo cucaia sp	0.60	576	0.10	
Penaeus subtilis	0.50	20	0.09	
Penaeus notialis	0.00	64		
Anchoviella sp	0.00	320		
Total	573.22		100.06	

PROJECT STATION: 999
 DATE: 0/11/00 GEAR TYPE: PT No:4 POSITION: Lat N 810 Long W 5846
 start stop duration Purpose code: 1
 TIME : 23:00 23:30 30 (min) Area code : 2
 LOG : 6595.50 6597.50 1.60 GearCond.code: 3
 FDEPTH: 0 0 Validity code: 3
 BDEPTH: 16 16
 Towing dir: 300 Wire out: 50 m Speed: 3 kn*10
 Sorted: 10 Kg Total catch: 224.64 CATCH/HOUR: 449.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa sp	120.00	8220	26.71	940
Scomberomorus brasiliensis	70.20	76	15.63	937
Pellona harroweri	31.20	6480	6.94	942
Trichiurus lepturus	30.60	792	6.81	
Anchoviella lepidontostole	25.20	5880	5.61	945
Anchoviella sp	24.00	9840	5.34	941
Macrodon ancylodon	15.60	84	3.47	
Trachinotus cayanensis	13.40	16	2.98	
Harengula jaguana	13.20	576	2.94	938
Opisthonema oglinum	12.00	7920	2.67	943
Chaetodipterus faber	10.60	4	2.36	
Selene setapinnis	8.40	192	1.87	
Anchoa spinifer	6.00	1200	1.34	
Sardinella aurita	6.00	6120	1.34	944
Bagre bagre	6.00	24	1.34	
Opisthonema oglinum	6.00	60	1.34	
Sphyrna guachancho	5.00	12	1.29	
Micropogonias furnieri	5.60	12	1.25	
Rhizoprionodon porosus	5.40	8	1.20	
Anchoviella cayanensis	4.00	240	1.07	
Isopisthus parvipinnis	4.00	480	1.07	
Isopisthus parvipinnis	3.60	72	0.80	
Cynoscion virescens	3.60	6	0.80	
Oligoplites saliens	3.00	24	0.67	
Lycengraulis grossidens	2.40	240	0.53	
Penaeus subtilis	2.40	264	0.53	939
Cynoscion leiarchus	1.00	2	0.40	
Menticirrhus americanus	1.20	12	0.27	
Peprilus paru	1.20	12	0.27	
Ctenosciaena gracilicirrhus	1.20	24	0.27	
Polydora virgificum	1.20	12	0.27	
Stallifer microps	0.60	12	0.13	
Cynoscion acoupa	0.60	12	0.13	
Cynoscion steindachneri	0.60	12	0.13	
Chloroscombrus chrysurus	0.60	12	0.13	
Xiphopenaeus kroyeri	0.48	36	0.11	
Scomberomorus cavalla	0.00	240		
Chirocentrodon bleekorianus	0.00	360		
Echeneis naucrates	0.00	12		
Total	449.28		100.01	

PROJECT STATION: 1000
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION: Lat N 846 Long W 5910
 start stop duration Purpose code: 3
 TIME : 05:40 06:10 30 (min) Area code : 2
 LOG : 6654.50 6655.50 1.00 GearCond.code: 3
 FDEPTH: 74 71 Validity code: 1
 BDEPTH: 74 71
 Towing dir: 300 Wire out: 400 m Speed: 3 kn*10
 Sorted: 16 Kg Total catch: 75.45 CATCH/HOUR: 150.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	27.00	6	17.89	946
Lutjanus purpureus	22.00	36	14.58	947
Rhomboplites aurorbens	18.00	140	11.93	949
Pristipomoides macrophthalmus	17.20	368	11.40	
Saurida normani	10.00	500	5.63	
Lutjanus synagris	7.40	14	4.90	948
Upeneus parvus	6.40	168	4.24	
Eucinostomus argenteus	5.20	120	3.45	
Calamus pennatula	4.60	10	3.05	
Haemulon steindachneri	4.40	32	2.92	
Priacanthus arenatus	4.00	36	2.65	
Selene setapinnis	4.00	68	2.65	
Scomberomorus cavalla	3.00	4	1.99	
Sphyrna guachancho	2.60	6	1.72	
Synodus foetens	2.40	12	1.59	
OGCOCEPHALIDAE	2.00	36	1.33	
Cyclopaetta chittendeni	1.60	12	1.06	
Soranus atrobranchus	1.60	160	0.80	
Loligo plei	1.00	40	0.66	
Synodus poeyi	1.00	20	0.66	
Symphurus plagiusa	0.00	4	0.53	
Citharichthys spilopterus	0.00	84	0.53	
Prionotus stearnsi	0.00	92	0.53	
Penaeus notialis	0.60	14	0.40	
Porichthys pauciradiatus	0.60	24	0.40	
Prionotus roseus	0.60	20	0.40	
Syacium pillosum	0.40	4	0.27	
Caulolatilus guppyi	0.40	4	0.27	
Haemulon aurolineatum	0.40	16	0.27	
Hildebrandia flava	0.20	4	0.13	
Halichoeres caudalis	0.16	4	0.11	
Lepophidium profundorum	0.12	4	0.08	
Penaeus brasiliensis	0.02	2	0.01	
Total	150.90		100.03	

PROJECT STATION:1004
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 856 Long W 5941
 start stop duration Purpose code: 3
 TIME : 12:42 13:12 30 (min) Area code : 3
 LOG : 6705.40 6706.60 1.20 GearCond.code: 1
 FDEPTH: 63 62 Validity code: 1
 DDEPTH: 63 62
 Towing dir: 295° Wire out: 350 m Spoud: 2 kn*10
 Sorted: 46 Kg Total catch: 45.91 CATCH/HOUR: 91.82

PROJECT STATION:1006
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 858 Long W 6013
 start stop duration Purpose code: 3
 TIME : 17:05 17:35 30 (min) Area code : 3
 LOG : 6740.90 6742.20 1.30 GearCond.code: 1
 FDEPTH: 14 14 Validity code: 1
 DDEPTH: 14 14
 Towing dir: 305° Wire out: 75 m Speed: 2 kn*10
 Sorted: 25 Kg Total catch: 296.52 CATCH/HOUR: 593.04

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Selene setapinnis	29.80	246	32.45
Sphyræna pliocidilla	8.20	68	8.93
Macraronx amblyrhynchus	8.00	36	8.71
Dasyatis americana	6.90	2	7.51
Sphyræna quachancho	6.00	14	6.53
Loligo plei	4.80	844	5.23
Peprilus paru	4.00	38	4.36
Scomberomorus cavalla	3.80	2	4.14
Rhizoprionodon porosus	3.40	4	3.70
Mustelus higmani	3.00	4	3.27
Lutjanus purpureus	2.40	16	2.61
Cynoscion acoupa	2.20	18	2.40
Upeneus parvus	1.60	28	1.74
Trichurus lepturus	1.60	26	1.74
Loligo surinamensis	1.40	86	1.52
Rhomboplites aurorubens	1.40	0	1.52
Lutjanus synagris	1.00	6	1.09
Cynoscion jamaicensis	0.70	2	0.76
Penaeus notialis	0.60	6	0.65
Bagre marinus	0.40	2	0.44
Saurida sp	0.40	12	0.44
Diplectrum radiale	0.06	2	0.07
Bucinosomus argenteus	0.04	2	0.04
Bucinosomus guila	0.04	2	0.04
Saurida normani	0.04	2	0.04
Chloroscombrus chrysurus	0.04	2	0.04
Bucinosomus sp	0.00	6	
Total	91.82		99.97

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macraronx ancylodon	189.60	2582	31.97
Rhinoptera bonasus	128.00	32	21.58
Dasyatis goliakaei	56.00	16	9.44
Arius grandicassisi	31.60	26	5.33
Trichurus lepturus	30.40	1096	5.13
Isopisthus parvipinnis	27.20	9104	4.59
Xiphopneaus kroyeri	20.90	3844	3.52
Shrimps, small, non comm.	12.60		2.12
Harongula jaguana	8.40	276	1.42
Stellifer rastriifer	8.00	1056	1.35
Arius grandicassisi	7.20	108	1.21
Peprilus paru	7.20	96	1.21
Anchoa spinifer	7.20	528	1.21
Odontognathus mucronatus	7.10	2590	1.20
Carcharhinus porosus	6.80	6	1.15
Chaetodipterus faber	6.00	2	1.01
Pomatomus saltatrix	6.00	2	1.01
Nebria microps	4.80	72	0.81
Gymnura micrura	4.00	4	0.67
Anchoa spinifer	3.76	750	0.63
Stellifer microps	2.60	324	0.44
Centropomus parallelus	2.40	4	0.40
Scomberomorus brasiliensis	2.40	2	0.40
Penaeus schmitti	2.00	54	0.34
Bagre marinus	1.60	2	0.27
Colomesus psittacus	1.60	2	0.27
Pellona harroweri	1.40	1330	0.24
Rhizoprionodon porosus	1.40	2	0.24
Arius quadriscutis	1.20	2	0.20
Cynoscion sp	0.96	36	0.16
Cynoscion virescens	0.96	48	0.16
Lycengraulis grossidens	0.84	12	0.14
Bagre marinus	0.52	90	0.09
Bagre bagre	0.40	208	0.07
Anchoa filifera	0.00	126	
Anchoa filifera	0.00	42	
Total	593.04		99.96

PROJECT STATION:1005
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 851 Long W 6001
 start stop duration Purpose code: 3
 TIME : 15:15 15:45 30 (min) Area code : 3
 LOG : 6726.90 6728.30 1.40 GearCond.code: 1
 FDEPTH: 16 15 Validity code: 1
 DDEPTH: 16 15
 Towing dir: 275° Wire out: 100 m Speed: 3 kn*10
 Sorted: 18 Kg Total catch: 813.50 CATCH/HOUR: 1627.00

PROJECT STATION:1007
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 912 Long W 6003
 start stop duration Purpose code: 3
 TIME : 19:46 20:16 30 (min) Area code : 3
 LOG : 6760.60 6762.10 1.50 GearCond.code: 1
 FDEPTH: 58 58 Validity code: 1
 DDEPTH: 58 58
 Towing dir: 300° Wire out: 300 m Speed: 3 kn*10
 Sorted: 21 Kg Total catch: 21.87 CATCH/HOUR: 43.74

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Macraronx ancylodon	305.00	2300	10.75
Pellona harroweri	153.36	53676	9.43
Peprilus paru	132.50	950	8.14
Anchoa filifera	127.80	6348	7.85
Anchoa filifera	97.90	30246	6.02
Odontognathus mucronatus	93.72	28116	5.76
Cynoscion jamaicensis	92.50	1000	5.69
Scomberomorus brasiliensis	83.00	176	5.10
Harongula jaguana	55.38	3834	3.40
Bagre bagre	47.50	150	2.92
Isopisthus parvipinnis	45.00	1350	2.77
Cynoscion virescens	45.00	150	2.77
Anchoa spinifer	38.34	9798	2.36
Opisthonema oglinum	25.00	200	1.54
Anchoa lyolepis	21.30	13632	1.31
Elops saurus	20.60	16	1.27
Sphyræna quachancho	17.40	22	1.07
Oligoplites saliens	17.20	22	1.06
Rhizoprionodon porosus	15.40	32	0.95
Pomatomus saltatrix	15.20	26	0.93
Microgogonias furnieri	15.00	50	0.92
Centropomus undecimalis	15.00	50	0.92
Nebria microps	15.00	50	0.92
Stellifer microps	15.00	250	0.92
Sphyræna quachancho	15.00	100	0.92
Oligoplites saliens	12.50	150	0.77
Gonyatremus luteus	10.00	50	0.61
Arius grandicassisi	10.00	50	0.61
Selene setapinnis	10.00	200	0.61
Cynoscion virescens	0.80	4	0.54
Chirocentrodon bleekeriannus	8.52	2556	0.52
Lycengraulis grossidens	5.00	100	0.31
Larimus breviceps	5.00	50	0.31
Ctenosciaena gracilicirrhus	5.00	50	0.31
Chaetodipterus faber	4.80	2	0.30
Caranx hippos	3.80	4	0.23
Carcharhinus limbatus	3.40	2	0.21
Trachinotus falcatus	3.40	2	0.21
Trichurus lepturus	3.00	50	0.18
Bagre marinus	2.60	2	0.16
Sphyrna tiburo	2.20	2	0.14
Penaeus schmitti	2.00	100	0.12
Trachinotus carolinus	1.00	2	0.11
Anchoa spinifer	1.00	50	0.06
Opisthonema oglinum	0.00	426	
Selene setapinnis	0.00	426	
Total	1627.00		100.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lepophidium profundorum	15.60	138	35.67
Penaeus notialis	14.20	130	9.60
Xiphopneaus kroyeri	3.00	934	6.06
Loligo surinamensis	2.80	180	6.40
Selene setapinnis	2.80	62	6.40
Eucinosomus argenteus	2.60	92	5.94
Serranus atrobranchus	2.40	216	5.49
Prionotus punctatus	2.20	288	5.03
Cynoscion leiacrius	1.20	6	2.74
Mustelus higmani	1.00	2	2.29
Prionotus punctatus	0.80	8	1.83
Diplectrum radiale	0.80	6	1.83
Trichurus lepturus	0.80	16	1.83
Penaeus subtilis	0.80	34	1.83
Hoplunnis sp	0.40	16	0.91
Saurida sp	0.40	24	0.91
Haemulon steindachneri	0.40	2	0.91
Loligo plei	0.40	14	0.91
Lutjanus synagris	0.40	4	0.91
Synodus foetens	0.40	4	0.91
Upeneus parvus	0.20	12	0.46
Harongula jaguana	0.06	2	0.14
Cyclopssetta chittendeni	0.04	2	0.09
Hildebrandia flava	0.04	2	0.09
Syacium papillosum	0.00	4	
Total	43.74		99.98

PROJECT STATION:1008
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 920 Long W 5956
 start stop duration Purpose code: 3
 TIME : 21:45 22:15 30 (min) Area code : 3
 LOG : 6774.10 6775.40 1.30 GearCond.code: 1
 FDEPTH: 69 70 Validity code: 1
 DDEPTH: 69 70
 Towing dir: 300° Wire out: 350 m Speed: 3 kn*10
 Sorted: 24 Kg Total catch: 55.90 CATCH/HOUR: 111.80

PROJECT STATION:1008
 DATE: 9/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 920 Long W 5956
 start stop duration Purpose code: 3
 TIME : 21:45 22:15 30 (min) Area code : 3
 LOG : 6774.10 6775.40 1.30 GearCond.code: 1
 FDEPTH: 69 70 Validity code: 1
 DDEPTH: 69 70
 Towing dir: 300° Wire out: 350 m Speed: 3 kn*10
 Sorted: 24 Kg Total catch: 55.90 CATCH/HOUR: 111.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pristipomoides macrophthalmus	24.80	1230	22.18
Lepophidium profundorum	17.60	1354	15.74
Upeneus parvus	8.40	260	7.51
Rhomboplites aurorubens	7.40	92	6.62
Prionotus stearnsi	6.00	424	5.37
Serranus atrobranchus	5.20	560	4.65
Priacanthus arenatus	5.00	52	4.47
Penaeus notialis	4.40	144	3.94
Saurida normani	4.00	172	3.58
Mustelus higmani	4.00	8	3.58
Xiphopneaus kroyeri	2.40	768	2.15
Cyclopssetta chittendeni	2.16	8	1.93
Gymnothorax ocellatus	2.00	8	1.79
Eucinosomus argenteus	2.00	48	1.79
Hoplunnis sp	1.52	44	1.36
Loligo surinamensis	1.48	40	1.32
Ogcocephalus nasutus	1.28	4	1.14
Lutjanus synagris	1.24	4	1.11
Synodus foetens	1.20	4	1.07
Porichthys pauciradiatus	1.04	60	0.93
Haemulon aurolineatum	1.00	16	0.89
Lutjanus purpureus	0.88	4	0.79
Prionotus punctatus	0.80	4	0.72
Hildebrandia flava	0.76	12	0.68
Haemulon steindachneri	0.76	16	0.68
Chilomycterus antillarum	0.68	4	0.61
Loligo plei	0.60	8	0.54
Eucinosomus guila	0.60	4	0.54
Citharichthys spilopterus	0.56	32	0.50
Selene setapinnis	0.56	4	0.50
Synodus poyi	0.44	0	0.39
Chloroscombrus chrysurus	0.40	4	0.35
Paraxocetus brachypterus	0.20	4	0.25
Penaeus subtilis	0.20	2	0.18
Penaeus brasiliensis	0.16	2	0.14
Total	111.80		100.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pristipomoides macrophthalmus	24.80	1230	22.18
Lepophidium profundorum	17.60	1354	15.74
Upeneus parvus	8.40	260	7.51
Rhomboplites aurorubens	7.40	92	6.62
Prionotus stearnsi	6.00	424	5.37
Serranus atrobranchus	5.20	560	4.65
Priacanthus arenatus	5.00	52	4.47
Penaeus notialis	4.40	144	3.94
Saurida normani	4.00	172	3.58
Mustelus higmani	4.00	8	3.58
Xiphopneaus kroyeri	2.40	768	2.15
Cyclopssetta chittendeni	2.16	8	1.93
Gymnothorax ocellatus	2.00	8	1.79
Eucinosomus argenteus	2.00	48	1.79
Hoplunnis sp	1.52	44	1.36
Loligo surinamensis	1.48	40	1.32
Ogcocephalus nasutus	1.28	4	1.14
Lutjanus synagris	1.24	4	1.11
Synodus foetens	1.20	4	1.07
Porichthys pauciradiatus	1.04	60	0.93
Haemulon aurolineatum	1.00	16	0.89
Lutjanus purpureus	0.88	4	0.79
Prionotus punctatus	0.80	4	0.72
Hildebrandia flava	0.76	12	0.68
Haemulon steindachneri	0.76	16	0.68
Chilomycterus antillarum	0.68	4	0.61
Loligo plei	0.60	8	0.54
Eucinosomus guila	0.60	4	0.54
Citharichthys spilopterus	0.56	32	0.50
Selene setapinnis	0.56	4	0.50
Synodus poyi	0.44	0	0.39
Chloroscombrus chrysurus	0.40	4	0.35
Paraxocetus brachypterus	0.20	4	0.25
Penaeus subtilis	0.20	2	0.18
Penaeus brasiliensis	0.16	2	0.14
Total	111.80		100.00

PROJECT STATION:1009
 DATE:10/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 907 Long W 5951
 TIME : 00:40 01:10 30 (min) Purpose code: 3
 LOG :6798.40 6799.40 1.00 Area code : 3
 FDEPTH: 62 62 GearCond.code: 3
 DDEPTH: 62 62 Validity code: 1
 Towing dir: 300° Wire out: 300 m Speed: 2 kn*10
 Sorted: 22 Kg Total catch: 22.66 CATCH/HOUR: 45.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Penaeus notialis</i>	9.20 320	20.30	983
<i>Selene apixii</i>	4.70 108	10.37	980
<i>Penaeus subtilis</i>	3.20 130	7.06	982
<i>Lepophidium profundorum</i>	2.50 88	5.52	
<i>Prionotus punctatus</i>	2.50 26	5.52	
<i>Mustelus higmani</i>	2.40 6	5.30	
<i>Porichthys pauciradiatus</i>	2.40 266	5.30	
<i>Cynoscion acoupa</i>	2.00 14	4.41	
<i>Gymnothorax ocellatus</i>	2.00 16	4.41	
<i>Synodus foetens</i>	1.00 22	3.97	
<i>Saurida normani</i>	1.70 54	3.75	
<i>Eucinostomus gula</i>	1.60 38	3.53	
<i>Loligo surinamensis</i>	1.50 90	3.31	981
<i>Trachypenaeus similis</i>	1.10 406	2.43	
<i>Serranus atrobranchus</i>	1.00 72	2.21	
<i>Citharichthys spilopterus</i>	1.00 46	2.21	
<i>Sphyræna guachancho</i>	1.00 4	2.21	
<i>Cynoscion steindachneri</i>	0.60 4	1.32	
<i>Pristipomoides macrophthalmus</i>	0.60 22	1.32	
<i>Eucinostomus argenteus</i>	0.50 22	1.10	
<i>Upeneus parvus</i>	0.30 30	0.84	
<i>Prionotus stearnsi</i>	0.30 8	0.66	
<i>Pistularia petimba</i>	0.30 4	0.66	
<i>Ophiodon sp.</i>	0.30 22	0.66	
<i>Diplectrum radiale</i>	0.30 2	0.66	
<i>Hoplunnis sp.</i>	0.20 6	0.44	
<i>Scorpaena brasiliensis</i>	0.04 2	0.09	
<i>Ogcocephalus sp.</i>	0.00 2		
<i>Hildebrandia flava</i>	0.00 2		
<i>Lonchopichthys sp.</i>	0.00 10		
<i>Saurida sp.</i>	0.00 2		
<i>Haemulon aurolineatum</i>	0.00 2		
<i>Ctenosciaena gracilicirrhus</i>	0.00 2		
<i>Cyclosetta chittendeni</i>	0.00 2		
Total	45.12	99.56	

PROJECT STATION:1010
 DATE:10/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 902 Long W 5934
 TIME : 04:13 04:43 30 (min) Purpose code: 3
 LOG :6824.40 6825.90 1.50 Area code : 3
 FDEPTH: 75 75 GearCond.code: 3
 DDEPTH: 75 75 Validity code: 1
 Towing dir: 106° Wire out: 350 m Speed: 3 kn*10
 Sorted: 20 Kg Total catch: 81.80 CATCH/HOUR: 163.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Rhombolites aurorubens</i>	39.00 246	23.84	986
<i>Pristipomoides macrophthalmus</i>	25.00 360	15.28	
<i>Lepophidium profundorum</i>	24.00 1786	14.67	
<i>Saurida normani</i>	16.00 320	5.76	
<i>Lutjanus purpureus</i>	12.20 24	7.46	984
<i>Upeneus parvus</i>	6.50 140	3.97	
<i>Prionotus stearnsi</i>	5.80 510	3.55	
<i>Eucinostomus argenteus</i>	3.80 50	2.32	
<i>Penaeus notialis</i>	3.20 114	1.96	985
<i>Cyclosetta chittendeni</i>	3.00 10	1.83	
<i>Haemulon aurolineatum</i>	2.80 60	1.71	
<i>Porichthys pauciradiatus</i>	2.50 100	1.53	
<i>Prionotus punctatus</i>	2.50 16	1.53	
<i>Prionotus roseus</i>	2.30 66	1.41	
<i>Priacanthus arenatus</i>	1.80 6	1.10	
<i>Ogcocephalus nasutus</i>	1.50 10	0.92	
<i>Serranus atrobranchus</i>	1.50 206	0.92	
<i>Trachypenaeus similis</i>	1.30 480	0.79	
<i>Citharichthys spilopterus</i>	1.30 40	0.79	
<i>Hildebrandia flava</i>	1.30 26	0.79	
<i>Scorpaena brasiliensis</i>	1.20 6	0.73	
<i>Albula nemoptera</i>	1.20 2	0.73	
<i>Apogon sp.</i>	1.00 70	0.61	
<i>Panulirus argus</i>	0.80 2	0.49	
<i>Synodus sp.</i>	0.60 16	0.37	
<i>Syacium microrum</i>	0.54 6	0.33	
<i>Penaeus brasiliensis</i>	0.50 14	0.31	
<i>Ancylopsetta dilecta</i>	0.30 6	0.18	
<i>Penaeus subtilis</i>	0.20 4	0.12	
<i>Plesionika sp.</i>	0.00 48		
<i>Haemulon steindachneri</i>	0.00 6		
<i>Narcine brasiliensis</i>	0.00 6		
<i>Penaeus notialis</i>	0.00 114		985
Total	163.64	100.02	

PROJECT STATION:1011
 DATE:10/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 921 Long W 5917
 TIME : 08:15 09:15 60 (min) Purpose code: 3
 LOG :6857.30 6859.00 1.70 Area code : 3
 FDEPTH: 727 697 GearCond.code: 3
 DDEPTH: 727 697 Validity code: 1
 Towing dir: 310° Wire out:1900 m Speed: 2 kn*10
 Sorted: 18 Kg Total catch: 114.82 CATCH/HOUR: 114.82

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Pholidoteuthis adami</i>	22.50 12	19.60	
Shrimps, small, non comm.	11.60 2728	10.10	
<i>Talismania sp.</i>	8.00 156	8.71	
Miscellaneous fish	8.00	7.66	
<i>Stareomastis sculpta</i>	8.00 380	7.66	
<i>Neoscopelus sp.</i>	8.00 124	6.97	
<i>Coelorinchus sp.</i>	6.80 52	5.92	
MORIDAE	6.40 140	5.57	
<i>Yarella sp.</i>	6.40 104	5.57	
<i>Plesiopeanaeus edwardsianus</i>	5.60 85	4.88	987
<i>Geryon quinquedens</i>	5.20 6	4.53	
<i>Bathynomus giganteus</i>	4.80 6	4.18	
<i>Acanthephyra eximia</i>	1.90 88	1.65	988
<i>Nephropsis rosea</i>	1.40 56	1.22	
<i>Benthodesmus tenuis</i>	1.40 20	1.22	
<i>Halosaurus sp.</i>	1.40 24	1.22	
GONOSTOMATIDAE	1.20 72	1.05	
<i>Nesuxia sp.</i>	1.08 40	0.94	
<i>Acanthocaris caeca</i>	0.40 1	0.35	
ALPEOCEPHALIDAE	0.40 4	0.35	
<i>Bathypterois viridensis</i>	0.40 12	0.35	
<i>Myctophum sp.</i>	0.04 4	0.03	
<i>Squilla sp.</i>	0.00 4		
<i>Sternoptyx pseudobscura</i>	0.00 4		
Total	114.82	99.73	

PROJECT STATION:1012
 DATE:10/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 949 Long W 5930
 TIME : 16:40 17:40 60 (min) Purpose code: 3
 LOG :6912.10 6915.20 3.10 Area code : 3
 FDEPTH: 728 717 GearCond.code: 3
 DDEPTH: 728 717 Validity code: 1
 Towing dir: 150° Wire out:1900 m Speed: 3 kn*10
 Sorted: 19 Kg Total catch: 137.46 CATCH/HOUR: 137.46

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Epigonus sp.</i>	55.80 1026	40.59	
<i>Coelorinchus sp.</i>	18.60 84	13.53	
<i>Neoscopelus sp.</i>	8.40 120	6.11	
Miscellaneous fish	7.80	5.67	
<i>Monomitopus sp.</i>	6.60 240	4.80	
<i>Pholidoteuthis adami</i>	6.40 4	4.66	
<i>Stareomastis sculpta</i>	4.80 210	3.49	
<i>Geryon quinquedens</i>	4.30 4	3.13	
<i>Plesiopeanaeus edwardsianus</i>	4.20 60	3.06	989
Shrimps, small, non comm.	3.60	2.62	
<i>Nesuxia sp.</i>	3.60 126	2.62	
<i>Bathynomus giganteus</i>	3.30 6	2.40	
<i>Yarella sp.</i>	2.40 30	1.75	
<i>Bathypterois viridensis</i>	1.80 48	1.31	
<i>Acanthephyra eximia</i>	1.80 42	1.31	
<i>Talismania sp.</i>	1.60 55	1.16	990
<i>Acanthocaris caeca</i>	1.20 24	0.87	
<i>Acanthocaris caeca</i>	0.60 6	0.44	
<i>Glyphocrangon sp.</i>	0.60 6	0.44	
OGCOCEPHALIDAE	0.06 6	0.04	
<i>Gonostoma sp.</i>	0.00 6		
Total	137.46	100.00	

PROJECT STATION:1013
 DATE:11/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 940 Long W 6017
 TIME : 02:13 02:35 22 (min) Purpose code: 3
 LOG :6903.40 6904.30 0.90 Area code : 3
 FDEPTH: 67 66 GearCond.code: 5
 DDEPTH: 67 66 Validity code: 9
 Towing dir: 150° Wire out: 350 m Speed: 3 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
N O C A T C H	0.00		
Total			

PROJECT STATION:1014
 DATE:11/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 927 Long W 6012
 TIME : 04:31 05:01 30 (min) Purpose code: 3
 LOG :6999.80 7001.00 2.00 Area code : 3
 FDEPTH: 64 62 GearCond.code: 3
 DDEPTH: 64 62 Validity code: 1
 Towing dir: 150° Wire out: 300 m Speed: 3 kn*10
 Sorted: 21 Kg Total catch: 60.24 CATCH/HOUR: 120.48

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
<i>Pristipomoides macrophthalmus</i>	24.40 1696	20.25	995
<i>Trachypenaeus sp.</i>	19.20 6240	15.94	
<i>Lepophidium sp.</i>	13.60 1858	11.29	
<i>Priacanthus arenatus</i>	7.40 60	6.14	
<i>Penaeus notialis</i>	7.30 270	6.06	991
<i>Serranus atrobranchus</i>	6.40 608	5.31	
<i>Saurida normani</i>	4.20 202	3.49	
<i>Ogcocephalus nasutus</i>	4.20 14	3.49	
<i>Lutjanus purpureus</i>	3.60 26	2.99	994
<i>Rhombolites aurorubens</i>	3.40 70	2.82	993
<i>Prionotus punctatus</i>	3.20 32	2.66	
<i>Upeneus parvus</i>	3.20 64	2.66	
<i>Mustelus higmani</i>	3.00 6	2.49	
<i>Synodus poeyi</i>	1.80 74	1.49	
<i>Gymnothorax ocellatus</i>	1.80 14	1.49	
<i>Diplectrum radiale</i>	1.70 8	1.41	
<i>Synodus foetens</i>	1.40 14	1.16	
<i>Porichthys pauciradiatus</i>	1.40 134	1.16	
<i>Prionotus stearnsi</i>	1.20 70	1.00	
<i>Loligo surinamensis</i>	1.00 18	0.83	
<i>Loligo plei</i>	1.00 14	0.83	
<i>Cyclosetta chittendeni</i>	1.00 10	0.83	
<i>Lutjanus synagris</i>	1.00 4	0.83	
<i>Eucinostomus gula</i>	0.80 14	0.66	
<i>Eucinostomus argenteus</i>	0.60 50	0.50	
<i>Sphyræna guachancho</i>	0.60 2	0.50	
<i>Ophichthys sp.</i>	0.50 10	0.42	
<i>Hildebrandia flava</i>	0.50 32	0.42	
<i>Hoplunnis sp.</i>	0.40 42	0.33	
<i>Penaeus brasiliensis</i>	0.40 10	0.33	
<i>Syacium microrum</i>	0.14 14	0.12	992
BOTHLIDAE	0.14 36		
<i>Citharichthys sp.</i>	0.00 10		
<i>Callinectes sp.</i>	0.00 138		
Total	120.48	100.02	

R/V DR. FRIDTJOF NANSEN PROJECT: SC CATCH DATA PROJECT STATION:1015

DATE:11/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 927
 start stop duration
 TIME : 11:10 11:40 30 (min) Purpose code: 3
 LOG : 7049.10 7050.50 1.40 Area code : 3
 FDEPTH: 33 33 GearCond.code: 1
 BDEPTH: 33 33 Validity code: 1
 Towing dir: 320° Wire out: 150 m Speed: 3 kn*10

Sorted: 8 Kg Total catch: 599.85 CATCH/HOUR: 1199.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoviella lepidontostole	367.60	85774	30.64	996
Anchoviella brevirostris	284.00	111706	23.67	
Selene spixii	108.80	578	9.07	
Odontognathus micronatus	66.80	12700	5.57	
Rhizoprionodon porosus	58.40	74	4.87	
Peprilus paru	51.00	272	4.25	
Pellona harroweri	43.40	2326	3.62	997
Sphyræna guachancho	30.20	54	2.52	
Elops saurus	24.80	22	2.07	
Pomatomus saltatrix	24.00	44	2.00	
Anchoa spinifer	23.20	9024	1.93	
Trichurus lepturus	13.60	748	1.13	
Cynoscion vireescens	12.60	6	1.05	
Caranx hippos	12.40	8	1.03	
Microgobias furnieri	11.20	16	0.93	
Cynoscion acoupa	10.20	60	0.85	
Scomberomorus brasiliensis	8.60	8	0.72	
Harengula jaguana	8.50	136	0.71	
Ctenosciaena gracilicirrhus	8.50	170	0.71	
Opisthonema oglinum	8.50	170	0.71	
Trachinotus carolinus	6.80	34	0.57	
Scomberomorus cavalla	5.20	4	0.43	
Bagre marinus	4.80	6	0.40	
Oligoplites saliens	4.20	4	0.35	
Mustelus higmani	1.40	2	0.12	
Bagre bagre	1.00	2	0.08	
Total	1199.70		100.00	

DATE:11/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 944
 start stop duration
 TIME : 16:06 16:36 30 (min) Purpose code: 3
 LOG : 7075.20 7076.70 1.50 Area code : 3
 FDEPTH: 25 25 GearCond.code: 1
 BDEPTH: 25 25 Validity code: 1
 Towing dir: 290° Wire out: 100 m Speed: 3 kn*10

Sorted: 17 Kg Total catch: 139.27 CATCH/HOUR: 278.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrodon ancylodon	56.00	424	20.10	
Trichurus lepturus	45.60	2162	16.37	
Pellona harroweri	28.00	4000	10.05	
Cynoscion vireescens	26.00	64	9.33	
Isopisthus parvipinnis	14.40	10	5.17	
Microgobias furnieri	14.00	10	5.03	
Harengula jaguana	10.72	2000	3.85	
Anchoviella lepidontostole	9.60	2080	3.45	
Anchoa spinifer	9.60	1120	3.45	
Scomberomorus brasiliensis	9.00	14	3.23	
Peprilus paru	8.00	176	2.87	
Sphyrna tiburo	6.80	6	2.44	
Caranx hippos	6.20	4	2.23	
Bagre bagre	5.60	48	2.01	
Carcharhinus porosus	4.00	2	1.44	
Arius grandicaasis	4.00	2	1.44	
Rhizoprionodon porosus	3.80	6	1.36	
Chirocentron bleekermanus	3.20	1520	1.15	
Anchoviella brevirostris	3.20	1360	1.15	
Stellifer microps	3.20	160	1.15	
Mustelus higmani	2.40	8	0.86	
Pomatomus saltatrix	2.40	2	0.72	
Odontognathus mucronatus	1.60	00	0.57	
Lycengraulis grossidens	1.20	16	0.43	
Penaeus schmitti	0.40	12	0.14	
Penaeus subtilis	0.02	2	0.01	
Engraulis eurystole	0.00	80		
Total	278.54		100.00	

DATE:11/11/88 GEAR TYPE: BT No:2 POSITION:Lat N 933
 start stop duration
 TIME : 12:40 13:15 35 (min) Purpose code: 1
 LOG : 7054.00 7055.30 1.30 Area code : 3
 FDEPTH: 10 15 GearCond.code: 1
 BDEPTH: 33 35 Validity code: 3
 Towing dir: 340° Wire out: 50 m Speed: 3 kn*10

Sorted: 71 Kg Total catch: 71.65 CATCH/HOUR: 122.83

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomberomorus brasiliensis	84.51	75	68.80	998
Scomberomorus cavalla	19.37	7	15.77	
Carcharhinus limbatus	10.80	2	8.79	
Trachinotus carolinus	3.69	3	3.00	
Anchoviella lepidontostole	2.40	495	1.95	999
Rhizoprionodon porosus	1.20	2	0.90	
Sphyræna guachancho	0.86	2	0.70	
Sardinella aurita	0.00	5		
Total	122.83		99.99	

DATE:11/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 948
 start stop duration
 TIME : 17:07 17:37 30 (min) Purpose code: 3
 LOG : 7080.00 7081.40 1.40 Area code : 3
 FDEPTH: 36 36 GearCond.code: 1
 BDEPTH: 36 36 Validity code: 1
 Towing dir: 290° Wire out: 150 m Speed: 3 kn*10

Sorted: 4 Kg Total catch: 69.05 CATCH/HOUR: 138.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentron bleekermanus	28.80	8968	20.85	6
Small squids undent.	12.74	2194	9.23	
Nenticirrhus americanus	12.74	26	9.23	
Diapterus rhombus	10.20	26	7.39	
Symphurus diomedianus	10.20	26	7.39	
Anchoviella brevirostris	7.64	230	5.53	
Pellona harroweri	7.64	128	5.53	
Selone setapinnis	5.40	22	3.91	4
Cynoscion jamaicensis	5.40	88	3.91	
Mustelus higmani	5.10	26	3.69	
Peprilus paru	5.00	8	3.62	
Microgobias furnieri	4.40	4	3.19	
Trichurus lepturus	3.20	116	2.32	
Pomatomus saltatrix	3.20	2	2.32	
Harengula jaguana	3.00	2	2.17	
Rhizoprionodon porosus	2.60	4	1.88	
Trachinotus carolinus	2.60	26	1.88	5
Caranx hippos	2.60	2	1.88	
Bairdiella ronchus	2.54	26	1.04	
Eucinostomus argenteus	2.40	96	1.74	
Sphyræna sp	0.70	10	0.51	
Total	138.10		100.01	

DATE:11/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 941
 start stop duration
 TIME : 14:18 14:48 30 (min) Purpose code: 3
 LOG : 7053.30 7054.30 1.00 Area code : 3
 FDEPTH: 45 44 GearCond.code: 1
 BDEPTH: 45 44 Validity code: 1
 Towing dir: 295° Wire out: 200 m Speed: 2 kn*10

Sorted: 28 Kg Total catch: 155.82 CATCH/HOUR: 311.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Harengula jaguana	104.80	4492	33.63	2
Chirocentron bleekermanus	47.20	9912	15.15	3
Chaetodipterus faber	41.60	344	13.35	
Pomatomus saltatrix	22.60	42	7.25	
Bagre marinus	18.00	30	6.03	
Sphyræna guachancho	18.00	36	5.97	1
Lutjanus purpurus	11.20	10	3.59	
Trichurus lepturus	10.00	176	3.21	
Selene spixii	8.40	20	2.70	
Opisthonema oglinum	4.00	48	1.28	
Cynoscion acoupa	4.00	16	1.28	
Sphyræna guachancho	4.00	24	1.28	
Rhizoprionodon porosus	3.80	6	1.22	
Peprilus paru	3.40	8	1.09	
Cynoscion vireescens	1.80	2	0.58	
Mustelus higmani	1.80	6	0.58	
Prisacanthus arenatus	1.40	2	0.45	
Lutjanus synagris	1.20	28	0.39	
Pellona harroweri	1.20	56	0.39	
Cynoscion steindachneri	0.40	8	0.13	
Synodus foetens	0.40	8	0.13	
Ctenosciaena gracilicirrhus	0.24	8	0.08	
Loligo surinamensis	0.00	32		
Total	311.64		100.02	

DATE:13/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1045
 start stop duration
 TIME : 14:53 15:23 30 (min) Purpose code: 3
 LOG : 7230.10 7231.10 1.00 Area code : 4
 FDEPTH: 46 44 GearCond.code: 1
 BDEPTH: 46 44 Validity code: 1
 Towing dir: 35° Wire out: 250 m Speed: 2 kn*10

Sorted: 45 Kg Total catch: 160.15 CATCH/HOUR: 320.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene setapinnis	220.00	686	68.69	8
Chirocentron bleekermanus	46.00	6760	14.36	
Lutjanus synagris	15.10	52	4.71	
Lutjanus purpurus	11.60	28	3.62	7
Peprilus paru	5.50	10	1.72	
Lagocephalus laevigatus	4.00	4	1.25	
Scomberomorus cavalla	3.40	4	1.06	
Elops saurus	2.50	2	0.78	
Caulolatilus intermedius	2.20	40	0.69	
Trachurus lathami	2.00	4	0.62	
Mustelus higmani	1.80	4	0.56	
Trichurus lepturus	1.50	70	0.47	
Prionotus punctatus	1.40	2	0.44	
Cyclosetta chittendeni	1.10	2	0.34	
Paralichthys tropicus	1.00	2	0.31	
Lutjanus synagris	0.70	4	0.22	
Rhomboplites aurorubens	0.50	10	0.16	
Loligo plei	0.00	20		
Pristipomoides macrophthalmus	0.00	10		
Haemulon boschmae	0.00	20		
Total	320.30		100.00	

PROJECT STATION:1021
 DATE:13/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1049 Long W 6140
 start stop duration
 TIME : 16:04 16:34 30 (min) Purpose code: 3
 LOG : 7236.00 7237.80 1.80 Area code : 4
 FDEPTH: 02 02 GearCond.code: 1
 BDEPTH: 02 02 Validity code: 1
 Towing dir: 250° Wire out: 400 m Speed: 3 kn*10
 Sorted: 46 Kg Total catch: 286.10 CATCH/HOUR: 572.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ctenoscaena gracilicirrus	157.50	1596	27.53	
Bairdiella chrysoura	120.00	1090	22.37	
Trachurus lathami	71.40	210	12.40	9
Trichurus lepturus	60.80	378	10.63	
Cynoscion steindachneri	42.00	798	7.34	
Priacanthus arenatus	23.00	62	4.02	
Cynoscion acoupa	18.00	22	3.15	
Scorpaena brasiliensis	12.60	42	2.20	
Selene setapinnis	11.40	20	1.99	
Chirocentron bleekeri	10.50	1848	1.84	
Paralichthys tropicus	8.00	6	1.54	
Cynoscion acoupa	7.20	20	1.26	
Micropogonias furnieri	5.00	6	0.87	
Cynoscion jamaicensis	3.00	20	0.52	
Rhizoprionodon porosus	2.20	2	0.30	
Pomatomus saltatrix	2.00	2	0.35	
Lutjanus purpureus	1.60	2	0.28	
Mustelus higmani	1.60	2	0.28	
Scorpaenopsis cavalla	1.20	2	0.21	
Cynoscion jamaicensis	1.00	2	0.17	
Mustelus canis	0.80	2	0.14	
Rhomboplites aurorubens	0.60	20	0.10	
Pristipomoides macrophthalmus	0.60	20	0.10	
Haemulon steindachneri	0.60	20	0.10	
Synodus foetens	0.40	20	0.07	
Upeneus parvus	0.40	20	0.07	
Stenodactylus argenteus	0.00	20		
Loligo sp	0.00	294		
Porichthys pauciradiatus	0.00	42		
Pomatomus brasiliensis	0.00	6		
Total	572.20		99.99	

PROJECT STATION:1022
 DATE:13/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1047 Long W 6135
 start stop duration
 TIME : 17:35 18:05 30 (min) Purpose code: 3
 LOG : 7246.20 7247.80 1.60 Area code : 4
 FDEPTH: 39 39 GearCond.code: 1
 BDEPTH: 39 39 Validity code: 1
 Towing dir: 250° Wire out: 200 m Speed: 3 kn*10
 Sorted: 23 Kg Total catch: 119.90 CATCH/HOUR: 239.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	49.80	660	20.77	11
Chirocentron bleekeri	24.00	6080	10.01	
Ctenoscaena gracilicirrus	24.00	258	10.01	
Trachurus lathami	18.20	46	7.59	
Micropogonias furnieri	13.80	10	5.75	
Pomatomus saltatrix	12.00	1400	5.02	
Lepopodium profundorum	11.40	612	4.75	
Caranx hippos	9.00	8	3.75	
Lutjanus purpureus	9.00	24	3.75	10
Trichurus lepturus	8.40	630	3.50	
Porichthys pauciradiatus	7.50	1170	3.13	
Myliobatis freminvillei	6.00	2	2.50	
Rhomboplites aurorubens	5.40	16	2.25	
Lutjanus synagris	4.80	10	2.00	
Pomatomus schmitti	4.76	1316	1.98	
Pomatomus saltatrix	4.50	4	1.79	
Prionotus punctatus	4.30	8	1.79	
Albula vulpes	4.00	4	1.67	
Mustelus higmani	3.00	4	1.25	
Hildebrandia flava	2.40	24	1.00	
Saurida sp	2.10	576	0.88	
Priacanthus arenatus	1.60	2	0.67	
Lutjanus griseus	1.60	2	0.67	
Haemulon boschmae	1.20	84	0.50	
Acanthostacion quadricornis	1.20	6	0.50	
Peprilus paru	1.20	6	0.50	
Rhizoprionodon lalandii	1.00	2	0.42	
Loligo pealei	0.90	60	0.38	
Synodus foetens	0.90	18	0.38	
Eucinostomus gula	0.60	24	0.25	
Serranus atrobranchus	0.60	48	0.25	
Harengula jaguana	0.60	24	0.25	
Trachypennaeus sp	0.00	56		
Total	239.80		100.00	

PROJECT STATION:1023
 DATE:13/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1048 Long W 6128
 start stop duration
 TIME : 19:47 20:17 30 (min) Purpose code: 3
 LOG : 7260.10 7261.50 1.40 Area code : 4
 FDEPTH: 39 38 GearCond.code: 1
 BDEPTH: 39 38 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 3 kn*10
 Sorted: 26 Kg Total catch: 80.55 CATCH/HOUR: 161.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	36.00	102	22.35	
Cynoscion jamaicensis	35.40	564	21.97	
Lepopodium profundorum	22.20	870	13.78	
Parapomatus longirostris	20.00	9340	12.41	
Trichurus lepturus	10.20	510	6.33	
Dasyatis americana	9.00	2	5.59	
Pomatomus saltatrix	6.00	572	3.72	
Micropogonias furnieri	6.00	2	3.72	
Porichthys pauciradiatus	5.40	2	3.35	
Selene setapinnis	3.90	18	2.42	
Serranus atrobranchus	1.80	270	1.12	
Loligo pealei	1.20	78	0.74	
Hildebrandia flava	1.20	30	0.74	
Priacanthus arenatus	1.10	2	0.68	
Trachypennaeus sp	0.80	340	0.50	
Prionotus punctatus	0.60	48	0.37	
NETTASTOMATIDAE	0.30	18	0.19	
Symphurus diomedianus	0.00	6		
Haemulon boschmae	0.00	6		
Lepopodium pteromystax	0.00	6		
Lonchopisthus higmani	0.00	6		
Pristipomoides macrophthalmus	0.00	6		
CONGRIDAE	0.00	6		
Total	161.10		99.98	

PROJECT STATION:1024
 DATE:14/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6113
 start stop duration
 TIME : 08:01 08:31 30 (min) Purpose code: 3
 LOG : 7357.70 7358.30 0.60 Area code : 4
 FDEPTH: 93 100 GearCond.code: 1
 BDEPTH: 93 100 Validity code: 1
 Towing dir: 250° Wire out: 450 m Speed: 1 kn*10
 Sorted: 22 Kg Total catch: 22.75 CATCH/HOUR: 45.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus purpureus	14.20	4	31.21	
Selene setapinnis	7.20	10	15.02	13
Rhizoprionodon porosus	5.40	4	11.87	
Sphyrna guachancho	5.00	8	10.99	
Trichurus lepturus	3.40	6	7.47	
Scorpaenopsis cavalla	3.00	6	6.59	
Sphyrna picudilla	2.00	2	4.40	
Pristipomoides macrophthalmus	1.60	20	3.52	
Mustelus canis	1.30	4	2.86	
Rhomboplites aurorubens	0.80	2	1.76	
Loligo pealei	0.70	70	1.54	14
Caulolatilus intermedius	0.40	2	0.88	
Ancylometta dilecta	0.20	2	0.44	
Upeneus parvus	0.20	2	0.44	
Trachurus lathami	0.10	2	0.22	
Total	45.50		100.01	

PROJECT STATION:1025
 DATE:14/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1056 Long W 6112
 start stop duration
 TIME : 09:56 10:26 30 (min) Purpose code: 3
 LOG : 7371.20 7372.20 1.00 Area code : 4
 FDEPTH: 38 54 GearCond.code: 1
 BDEPTH: 38 54 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 2 kn*10
 Sorted: 30 Kg Total catch: 131.30 CATCH/HOUR: 262.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Peprilus paru	51.60	104	19.65	19
Sphyrna guachancho	49.60	70	18.09	18
Micropogonias furnieri	42.00	34	15.99	15
Selene setapinnis	30.00	256	11.42	20
Chirocentron bleekeri	16.00		6.09	
Chirocentron chrysurus	14.00	136	5.33	21
Rhizoprionodon porosus	12.00	10	4.57	
Lutjanus purpureus	11.00	42	4.19	16
Sphyrna picudilla	10.80	62	4.11	17
Cynoscion simillis	4.50	4	1.71	
Trachinotus cayanensis	4.40	4	1.68	
Loligo plei	3.20	836	1.22	
Chaetodipterus faber	2.80	6	1.07	
Opisthonema oglinum	2.20	10	0.84	
Trichurus lepturus	2.00	4	0.76	
Cyclopetta chittendeni	1.60	4	0.61	
Scorpaenopsis cavalla	1.60	12	0.61	
Upeneus parvus	1.00	20	0.38	
Cynoscion jamaicensis	0.90	2	0.34	
Rhomboplites aurorubens	0.80	4	0.30	
Pristipomoides macrophthalmus	0.40	2	0.15	
Synodus sp	0.20	16	0.08	
Eucinostomus argenteus	0.00	4		
Haemulon boschmae	0.00	4		
Total	262.60		99.99	

PROJECT STATION:1026
 DATE:14/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1100 Long W 6119
 start stop duration
 TIME : 11:00 11:30 30 (min) Purpose code: 3
 LOG : 7375.80 7376.40 0.60 Area code : 4
 FDEPTH: 71 81 GearCond.code: 1
 BDEPTH: 71 81 Validity code: 1
 Towing dir: 270° Wire out: 400 m Speed: 1 kn*10
 Sorted: 107 Kg Total catch: 677.05 CATCH/HOUR: 1354.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	1137.00	4380	83.97	22
Lutjanus cyanopterus	54.40	2	4.02	
Priacanthus arenatus	42.00	120	3.10	
Rhomboplites aurorubens	20.60	254	1.52	
Trichurus lepturus	18.00	30	1.33	
Trachurus lathami	15.00	30	1.11	
Lutjanus purpureus	10.00	14	0.74	
Chirocentron bleekeri	9.00	1590	0.66	
Rhizoprionodon porosus	5.60	4	0.41	
Micropogonias furnieri	5.60	4	0.41	
Sphyrna guachancho	4.80	8	0.35	
Mustelus canis	4.60	10	0.34	
Sphyrna lewini	3.80	2	0.28	
Pristipomoides macrophthalmus	3.80	48	0.20	
Sphyrna picudilla	3.60	16	0.27	
Pomatomus saltatrix	3.20	4	0.24	
Cynoscion simillis	3.00	2	0.22	
Mustelus higmani	3.00	2	0.22	
Scorpaenopsis cavalla	2.70	2	0.20	
Cyclopetta chittendeni	2.60	4	0.19	
Serranus dawsoni	1.20	2	0.09	
Upeneus parvus	0.60	30	0.04	
Total	1354.10		99.99	

PROJECT STATION:1027
 DATE:14/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6119
 TIME : 12:15 12:45 30 (min) Purpose code: 3
 LOG : 7381.10 7882.40 1.30 Area code : 4
 FDEPTH: 70 77 GearCond.code: 1
 BDEPTH: 70 77 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 3 kn*10
 Sorted: 50 Kg Total catch: 153.52 CATCH/HOUR: 307.04

PROJECT STATION:1030
 DATE:14/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1054 Long W 6108
 TIME : 16:39 17:09 30 (min) Purpose code: 3
 LOG : 7410.30 7411.50 1.20 Area code : 4
 FDEPTH: 24 24 GearCond.code: 1
 BDEPTH: 24 24 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 3 kn*10
 Sorted: 26 Kg Total catch: 414.00 CATCH/HOUR: 828.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	130.00	550	42.34
Chirocentrodon bleekeri	48.00	11062	15.63
Lutjanus purpurus	19.20	14	6.25
Selene setapinnis	19.00	60	6.19
Saurida brasiliensis	15.00	2550	4.89
Sphyræna picudilla	10.00	60	3.26
Prionotus punctatus	10.00	10	3.26
Mustelus canis	7.40	16	2.41
Loligo pealei	6.00	670	1.95
Pristipomoides macrophthalmus	4.40	50	1.43
Alectis ciliaris	4.20	4	1.37
Peprilus paru	4.00	10	1.30
Upeneus parvus	4.00	60	1.30
Rhizoprionodon porosus	3.60	2	1.17
Scorpaenomorrus cavalla	3.00	10	0.98
Paralichthys tropicus	3.00	4	0.98
Rhomboplites aurorubens	2.80	10	0.91
Trachinotus cayennensis	2.60	2	0.85
Ctenosciaena gracilicirrhus	2.00	20	0.65
Decapterus tabl	2.00	20	0.65
Mustelus higmani	1.90	2	0.62
Porichthys pauciradiatus	1.50	40	0.49
Cyclopeseta chittendeni	1.00	2	0.33
Epinephelus niveatus	1.00	2	0.33
Prionotus punctatus	0.40	10	0.13
Penaous brasiliensis	0.40	14	0.13
Penaous notialis	0.30	10	0.10
Prionotus stearnsi	0.14	10	0.05
Sorranus phoebe	0.10	20	0.03
Hemiramphus sp.	0.10	10	0.03
Total	307.04	100.01	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	195.00	3900	23.55
Pellona harroweri	130.00	4012	15.70
Selene setapinnis	93.60	390	11.30
Peprilus paru	91.00	546	10.99
Harengula jaguana	80.40	1430	10.68
Micropogonias furnieri	70.00	86	8.45
Isopisthus parvipinnis	20.60	442	3.45
Anchoviella lepidostostole	23.40	1768	2.83
Ctenosciaena gracilicirrhus	18.20	26	2.20
Mustelus higmani	16.60	32	2.00
Umbrina coroides	11.00	22	1.33
Caroharhinus porosus	10.80	8	1.30
Opisthonema oglinum	10.40	546	1.26
Rhizoprionodon porosus	9.40	12	1.14
Bagre bagre	8.00	16	0.97
Larimus breviceps	7.60	16	0.92
Chloroscrombus chrysurus	3.90	26	0.47
Diplacrum bivittatum	2.60	26	0.31
Penaous subtilis	2.60	182	0.31
Ablennes hana	2.00	2	0.24
Caranx hippos	1.70	2	0.21
Conodon nobilis	1.60	2	0.19
Polydactylus virginicus	1.60	4	0.19
Penaous schmitti	0.00	26	
Penaous brasiliensis	0.00	26	
Total	828.00	99.99	

PROJECT STATION:1031
 DATE:14/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1057 Long W 6108
 TIME : 17:55 18:25 30 (min) Purpose code: 3
 LOG : 7417.43 7418.42 0.70 Area code : 4
 FDEPTH: 43 42 GearCond.code: 1
 BDEPTH: 43 42 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 1 kn*10
 Sorted: 28 Kg Total catch: 201.07 CATCH/HOUR: 402.14

PROJECT STATION:1028
 DATE:14/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1051 Long W 6110
 TIME : 13:45 13:58 13 (min) Purpose code: 3
 LOG : 7390.90 7391.60 0.70 Area code : 4
 FDEPTH: 34 32 GearCond.code: 9
 BDEPTH: 34 32 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 3 kn*10
 Sorted: 56 Kg Total catch: 56.86 CATCH/HOUR: 262.43

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Micropogonias furnieri	88.80	68	22.00
Selene setapinnis	69.00	240	17.16
Prionotus punctatus	63.50	200	15.79
Chloroscrombus chrysurus	54.00	560	13.43
Chirocentrodon bleekeri	21.00	3780	15.22
Cynoscion jamaicensis	20.00	90	4.97
Lepophidium profundorum	10.00	490	2.49
Caranx hippos	7.00	6	1.74
Trachinotus cayennensis	7.00	6	1.74
Trichiurus lepturus	6.00	20	1.49
Eucinostomus gula	6.00	160	1.49
Syadopus sp	6.00	1640	1.49
Rhizoprionodon porosus	4.80	4	1.19
Sphyræna guachancho	4.00	10	0.99
Peprilus paru	4.00	10	0.99
Bagre marinus	4.00	2	0.99
Upeneus parvus	3.50	60	0.87
Opisthonema oglinum	3.50	50	0.87
Paralichthys tropicus	2.60	2	0.65
Porichthys pauciradiatus	2.50	520	0.62
Synodus foetens	2.00	90	0.50
Cynoscion similis	1.80	2	0.45
Dasyatis americana	1.80	2	0.45
Loligo pealei	1.50	180	0.37
Anchoa filifera	1.00	340	0.25
Pristipomoides macrophthalmus	0.90	500	0.22
Lutjanus purpurus	0.80	4	0.20
Mustelus higmani	0.80	2	0.20
Rhomboplites aurorubens	0.70	10	0.17
Penaous notialis	0.70	28	0.17
Lutjanus synagris	0.60	2	0.15
Hildebrandia flava	0.50	10	0.12
Hoplunnis sp	0.50	20	0.12
Harengula jaguana	0.50	10	0.12
Penaous brasiliensis	0.40	14	0.10
Echeneis naucrates	0.40	2	0.10
Penaous schmitti	0.04	2	0.01
Haemulon boschmae	0.00	20	
Sorranus atrobranchus	0.00	40	
Trachypenaous sp	0.00	40	
Total	402.14	99.96	

PROJECT STATION:1029
 DATE:14/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1050 Long W 6115
 TIME : 14:55 15:25 30 (min) Purpose code: 3
 LOG : 7396.90 7398.30 1.40 Area code : 4
 FDEPTH: 23 29 GearCond.code: 1
 BDEPTH: 23 29 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 3 kn*10
 Sorted: 133 Kg Total catch: 627.40 CATCH/HOUR: 1254.80

PROJECT STATION:1032
 DATE:14/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1115 Long W 6048
 TIME : 22:30 23:00 30 (min) Purpose code: 1
 LOG : 7459.80 7461.60 1.80 Area code : 4
 FDEPTH: 38 38 GearCond.code: 1
 BDEPTH: 38 38 Validity code: 3
 Towing dir: 205° Wire out: 50 m Speed: 4 kn*10
 Sorted: 8 Kg Total catch: 62.05 CATCH/HOUR: 124.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Selene setapinnis	494.00	3306	39.37
Chirocentrodon bleekeri	206.50	59802	16.46
Micropogonias furnieri	126.00	158	10.04
Pellona harroweri	115.60	23622	9.21
Chloroscrombus chrysurus	49.40	190	3.94
Sphyræna guachancho	31.60	192	2.52
Opisthonema oglinum	29.74	10572	2.37
Cynoscion jamaicensis	22.80	152	1.82
Bagre marinus	21.80	20	1.74
Peprilus paru	19.00	76	1.51
Conodon nobilis	13.40	20	1.07
Scorpaenomorrus cavalla	13.00	14	1.04
Anchoa cayorum	11.60	6938	0.92
Engraulis eurystole	11.60	4624	0.92
Rhizoprionodon porosus	10.00	10	0.80
Anchoviella lepidostostole	9.92	992	0.79
Trachinotus cayennensis	9.80	12	0.78
Opisthonema oglinum	9.50	38	0.76
Ctenosciaena gracilicirrhus	9.40	38	0.75
Trichiurus lepturus	7.60	38	0.61
Arius grandicaissis	6.60	6	0.53
Umbrina coroides	4.00	8	0.32
Elops saurus	4.00	4	0.32
Polydactylus virginicus	3.80	8	0.30
Sphyrna lewini	3.00	2	0.24
Mustelus higmani	2.80	4	0.22
Scorpaenomorrus brasiliensis	2.40	2	0.19
Trachinotus carolinus	2.00	2	0.16
Caranx hippos	2.00	2	0.16
Oligoplites saurus	1.80	2	0.14
Total	1254.66	100.00	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Engraulis eurystole	81.54	73386	65.71
Harengula jaguana	25.60	5980	20.63
Selene setapinnis	5.00	58	4.03
Sardinella aurita	3.00	1390	2.42
Sphyræna guachancho	2.60	4	2.10
Ocyurus chrysurus	2.00	2	1.61
Emmelichthys atlanticus	1.20	302	0.97
Decapterus punctatus	1.10	32	0.89
Loligo ploi	0.80	150	0.64
Sphyræna picudilla	0.60	2	0.48
Rhomboplites aurorubens	0.50	6	0.40
Sardinella aurita	0.10	2	0.08
Synagrops sp.	0.04	2	0.03
Total	124.08	99.99	

PROJECT STATION:1033
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1102
 start stop duration Long W 6022
 TIME : 07:20 07:50 30 (min) Purpose code: 3
 LOG :7545.00 7547.20 1.40 Area code : 4
 FDEPTH: 126 126 GearCond.code: 1
 BDEPTH: 126 126 Validity code: 1
 Towing dir: 340° Wire out: 550 m Speed: 3 kn*10
 Sorted: 44 Kg Total catch: 44.60 CATCH/HOUR: 89.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	51.60	548	57.85	44
Aricomna bondi	20.00	304	22.42	45
Pristipomoides macrophthalma	7.00	100	7.85	
Scorpaenidae	3.20	22	3.59	46
Saurida brasiliensis	3.10	22	3.40	
Scorpaenidae	2.10	2	2.35	
Rhomboplites aurorubens	1.40	6	1.57	
Pistularia petimba	0.40	2	0.45	
Upeneus parvus	0.30	6	0.34	
Loligo pealei	0.04	2	0.04	
Etrumeus teres	0.04	2	0.04	
Poristiodon gracile	0.02	2	0.02	
Total	89.20		100.00	

PROJECT STATION:1034
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1055
 start stop duration Long W 6059
 TIME : 11:35 12:05 30 (min) Purpose code: 3
 LOG :7585.80 7585.90 0.10 Area code : 4
 FDEPTH: 58 68 GearCond.code: 1
 BDEPTH: 58 68 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 3 kn*10
 Sorted: 48 Kg Total catch: 136.60 CATCH/HOUR: 273.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene setapinnis	147.20	640	53.08	47
Trichurus lepturus	40.00	80	14.64	
Rhizoprionodon porosus	27.00	34	9.88	
Peprilus paru	24.00	48	8.78	
Chloroscobrus chrysurus	12.00	56	4.39	
Lutjanus purpurus	7.80	22	2.86	
Sphyrna picudilla	6.40	40	2.34	
Hemiscaranx amblyrhynchus	2.00	8	0.73	
Selene vomer	1.90	2	0.70	
Cyclopetta chilensis	1.90	4	0.70	
Upeneus parvus	1.60	16	0.59	
LOLIGINIDAE	0.80	48	0.29	
Pristipomoides macrophthalma	0.60	8	0.22	
Total	273.20		100.00	

PROJECT STATION:1035
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1054
 start stop duration Long W 6000
 TIME : 12:37 13:07 30 (min) Purpose code: 3
 LOG :7589.30 7589.30 Area code : 4
 FDEPTH: 35 37 GearCond.code: 1
 BDEPTH: 35 37 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 3 kn*10
 Sorted: 92 Kg Total catch: 135.79 CATCH/HOUR: 271.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Microgogonias furnieri	73.00	80	26.08	49
Selene setapinnis	50.50	136	10.59	
Opisthonema oglinum	37.50	560	13.81	50
Chloroscobrus chrysurus	37.20	296	13.70	48
Sphyrna guachancho	15.00	22	5.52	
Trachinotus caysennensis	14.80	14	5.45	
Scorpaenidae	8.00	2	2.95	
Trichurus lepturus	7.00	10	2.50	
Mustelus higmani	6.60	8	2.43	
Rhizoprionodon porosus	5.00	6	1.84	
Peprilus paru	4.24	10	1.56	
Sphyrna picudilla	3.50	20	1.29	
Lagodon rhomboides	3.00	6	1.10	
Pomatomus saltatrix	2.00	2	0.74	
Trachinotus goodii	2.00	2	0.74	
Lutjanus purpurus	1.60	4	0.59	
Lutjanus synagris	0.40	2	0.15	
Loligo sp	0.24	30	0.09	
Total	271.58		100.01	

PROJECT STATION:1036
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1052
 start stop duration Long W 6100
 TIME : 13:45 14:15 30 (min) Purpose code: 3
 LOG :7593.60 7594.30 0.70 Area code : 4
 FDEPTH: 22 23 GearCond.code: 2
 BDEPTH: 22 23 Validity code: 1
 Towing dir: 270° Wire out: 125 m Speed: 2 kn*10
 Sorted: 18 Kg Total catch: 73.40 CATCH/HOUR: 146.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Stellifer griseus	44.80	4346	30.52	
Stellifer microps	41.40	2070	28.20	
Trichurus lepturus	15.40	314	10.49	
Gymnura micrura	7.00	4	4.77	
Pellona harroweri	5.60	182	3.81	
Xiphopenaeus kroyeri	4.90	664	3.34	
Cynoscion virescens	4.32	4	2.94	
Rhizoprionodon porosus	4.00	4	2.72	
Aplatodus chauliodus	4.00	8	2.72	
Isopisthus parvipinnis	3.80	56	2.59	
Umbrina coroides	2.46	10	1.68	
Larimus breviceps	2.40	6	1.63	
Cynoscion jamaicensis	1.60	6	1.09	
Symphurus plagiatus	1.60	28	1.09	
Mustelus higmani	1.00	2	0.68	
Bagre marinus	0.90	14	0.61	
Narcine brasiliensis	0.70	28	0.48	
Harengula jaguana	0.70	34	0.48	
Penaeus subtilis	0.14	14	0.10	
Total	146.72		99.94	

PROJECT STATION:1037
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1041
 start stop duration Long W 6056
 TIME : 19:40 19:46 6 (min) Purpose code: 3
 LOG :7653.50 7653.80 0.30 Area code : 4
 FDEPTH: 28 20 GearCond.code: 5
 BDEPTH: 28 20 Validity code: 1
 Towing dir: 180° Wire out: 150 m Speed: 3 kn*10
 Sorted: 11 Kg Total catch: 62.46 CATCH/HOUR: 624.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Stellifer griseus	150.00	3600	24.02	
Microgogonias furnieri	104.00	270	16.65	51
Stellifer microps	102.00	3480	16.33	
Gymnura micrura	40.00	20	6.40	
Diapterus olisthostomus	36.00	70	5.76	
Bagre marinus	30.00	60	4.80	
Odontognathus mucronatus	26.00	2600	4.16	
Arius grandicaesus	22.00	40	3.52	
Dasyatis guttata	22.00	10	3.52	
Macrodon ancylodon	16.00	40	2.56	
Mustelus higmani	13.00	50	2.08	
Arius proops	12.00	300	1.92	
Polydactylus virginicus	10.00	60	1.60	
Larimus breviceps	8.00	60	1.28	
Pellona harroweri	8.00	1320	1.28	
Trichurus lepturus	6.00	220	0.96	
Isopisthus parvipinnis	6.00	300	0.96	
Chloroscobrus chrysurus	4.00	40	0.64	
Peprilus paru	4.00	20	0.64	
Xiphopenaeus kroyeri	3.00	640	0.48	
Penaeus subtilis	2.00	80	0.32	52
Porichthys pauciradiatus	0.40	20	0.06	
Narcine brasiliensis	0.20	20	0.03	
Trachypeneus sp	0.00	40		
Total	624.60		99.97	

PROJECT STATION:1031
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1040
 start stop duration Long W 6054
 TIME : 20:25 20:55 30 (min) Purpose code: 3
 LOG :7657.30 7658.70 1.40 Area code : 4
 FDEPTH: 35 35 GearCond.code: 1
 BDEPTH: 35 35 Validity code: 1
 Towing dir: 340° Wire out: 200 m Speed: 3 kn*10
 Sorted: 17 Kg Total catch: 213.70 CATCH/HOUR: 427.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Microgogonias furnieri	115.20	324	26.95	53
Otonosclaena gracilicirrus	80.20	2404	18.76	
Cynoscion jamaicensis	70.80	1656	16.57	
Lutjanus synagris	22.80	76	5.33	54
Chirocentrodon bleekeri	16.20	13654	3.79	
Prionotus punctatus	15.60	108	3.65	
Stellifer microps	14.60	256	3.42	
Peprilus paru	11.40	36	2.67	
Trichurus lepturus	10.80	72	2.53	
Eucinostomus gula	9.00	216	2.11	
Selene setapinnis	8.40	60	1.97	
Bagre marinus	7.20	12	1.68	
Chloroscobrus chrysurus	7.20	36	1.68	
Rhizoprionodon porosus	6.40	8	1.50	
Arius grandicaesus	6.00	12	1.40	
Diapterus rhombus	6.00	36	1.40	
Mustelus higmani	3.50	6	0.82	
Cynoscion jamaicensis	3.00	4	0.70	
Opisthonema oglinum	2.40	12	0.56	
Pellona harroweri	1.80	108	0.42	
Polydactylus virginicus	1.80	12	0.42	
Conodon nobilis	1.60	4	0.37	
Porichthys pauciradiatus	1.20	108	0.28	
Hemicirrhus americanus	1.20	2	0.28	
Sphyrna media	0.80	2	0.19	
Upeneus parvus	0.60	12	0.14	
Umbrina coroides	0.60	2	0.14	
Penaeus subtilis	0.60	24	0.14	55
Penaeus notialis	0.50	14	0.12	56
Drepaneosoma atlanticum	0.00	12		
Total	427.40		99.99	

PROJECT STATION:1039
 DATE:15/11/08 GEAR TYPE: BT No:1 POSITION:Lat N 1030
 start stop duration Long W 6054
 TIME : 22:21 22:51 30 (min) Purpose code: 3
 LOG :7671.80 7673.00 1.20 Area code : 4
 FDEPTH: 27 28 GearCond.code: 1
 BDEPTH: 27 28 Validity code: 1
 Towing dir: 360° Wire out: 150 m Speed: 2 kn*10
 Sorted: 72 Kg Total catch: 288.65 CATCH/HOUR: 577.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Stellifer griseus	210.00	4486	36.38	
Larimus breviceps	49.60	368	8.59	
Microgogonias furnieri	45.00	118	7.79	
Stellifer microps	29.00	652	5.02	
Isopisthus parvipinnis	24.00	272	4.16	
Arius quadriscutis	20.80	560	3.60	
Odontognathus mucronatus	19.20	2000	3.33	58
Pellona harroweri	19.20	832	3.33	57
Centropomus undecimalis	17.20	8	2.77	
Opisthonema oglinum	16.00	176	2.98	
Xiphopenaeus kroyeri	12.00	2336	2.08	
Trichurus lepturus	12.00	96	2.08	
Haemulon steindachneri	12.00	160	2.08	
Lutjanus synagris	11.00	28	1.91	
Mustelus micrura	10.00	30	1.73	
Gymnura micrura	9.00	12	1.56	
Diapterus rhombus	8.00	16	1.39	
Peprilus paru	8.00	32	1.39	
Pomadourus corvinaeformis	8.00	128	1.39	
Chloroscobrus chrysurus	8.00	80	1.39	
Carcharias porosus	5.00	2	0.87	
Umbrina coroides	4.00	32	0.83	
Cynoscion virescens	4.00	6	0.69	
Prionotus punctatus	3.20	48	0.55	
Polydactylus virginicus	3.20	48	0.55	
Macrodon ancylodon	2.40	6	0.42	
Penaeus subtilis	2.00	122	0.35	
Rhizoprionodon porosus	1.40	2	0.24	
Sphyrna tulae	1.00	2	0.17	
Rhinobatus pacellens	0.90	2	0.16	
Conodon nobilis	0.60	16	0.14	
Narcine brasiliensis	0.60	2	0.10	
Total	577.30		100.02	

PROJECT STATION:1040
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1012 Long W 5953
 start stop duration Purpose code: 3
 TIME : 07:15 08:15 60 (min)
 LOG : 7759.30 7762.20 2.90 Area code : 4
 PDEPTH: 716 724 GearCond.code: 1
 RDEPTH: 716 724 Validity code: 1
 Towing dir: 360° Wire out:1850 m Speed: 29 kn*10
 Sorted: 17 Kg Total catch: 43.90 CATCH/HOUR: 43.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Stereomastis sculpta</i>	4.60	138	10.48	
<i>Yarrella blackfordi</i>	4.20	36	9.57	
<i>Bathynomus giganteus</i>	4.00	22	9.11	
<i>Gonostoma elongatum</i>	3.00	126	6.03	
<i>Acanthephyra armata</i>	3.00	63	6.83	60
<i>Nematocarcinus rotundus</i>	2.40	516	5.47	
<i>Illex illecebrosus</i>	2.00	6	4.56	
<i>Monacitopus agassizii</i>	1.90	38	4.33	
<i>Gadomus arcuatus</i>	1.80	52	4.10	
<i>Diaphus sp</i>	1.80	16	4.10	
<i>Plesiopeanus edwardsianus</i>	1.70	39	3.87	59
<i>Synagrops bellus</i>	1.40	6	3.19	
<i>Coelorinchus oca</i>	1.40	14	3.19	
NETTASTOMATIDAE	1.20	28	2.73	
<i>Bathytrophus marionae</i>	1.20	4	2.73	
<i>Steindachneria argenta</i>	1.00	94	2.28	
<i>Nesumia cyrano</i>	1.00	12	2.28	
<i>Glyphocrangon aurantica</i>	1.00	172	2.20	
<i>Bathypterois viridensis</i>	0.90	24	2.05	
<i>Benthodesmus tenuis</i>	0.60	4	1.37	
<i>Diplophus maderensis</i>	0.60	10	1.37	
<i>Nettastoma melanurus</i>	0.50	2	1.14	
<i>Nephropsis sp</i>	0.50	22	1.14	
<i>Lampadena luminosa</i>	0.40	10	0.91	
<i>Glyphocrangon neglecta</i>	0.40	8	0.91	
<i>Polysetta corythaeola</i>	0.30	10	0.68	
<i>Xenoderichthys socialis</i>	0.30	6	0.68	
<i>Sergia robusta</i>	0.28	42	0.64	
<i>Gibberichthys pumilus</i>	0.20	12	0.46	
<i>Argyropelecus sp</i>	0.20	4	0.46	
<i>Springeria dubia</i>	0.06	2	0.14	
<i>Hydrolagus mirabilis</i>	0.06	2	0.14	
Total	43.90		100.02	

PROJECT STATION:1041
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1017 Long W 5955
 start stop duration Purpose code: 3
 TIME : 09:21 10:21 60 (min)
 LOG : 7765.80 7768.20 2.40 Area code : 4
 PDEPTH: 700 640 GearCond.code: 1
 RDEPTH: 700 640 Validity code: 1
 Towing dir: 350° Wire out:1900 m Speed: 24 kn*10
 Sorted: 23 Kg Total catch: 43.90 CATCH/HOUR: 43.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Neosopelus macrolepidotus</i>	6.25	95	14.24	
<i>Illex illecebrosus</i>	4.00	3	9.11	
<i>Stereomastis sculpta</i>	3.75	132	8.54	
<i>Yarrella blackfordi</i>	3.75	32	6.54	
<i>Bathygadus melanobranchus</i>	3.00	35	6.83	
<i>Ocotopoteuthis megaloptera</i>	2.50	5	5.69	
<i>Xenoderichthys socialis</i>	2.50	100	5.69	
<i>Coelorinchus oca</i>	2.00	4	4.56	
<i>Bathynomus giganteus</i>	2.00	4	4.56	
<i>Plesiopeanus edwardsianus</i>	1.90	37	4.33	
<i>Acanthephyra armata</i>	1.45	56	3.30	61
NETTASTOMATIDAE	1.25	30	2.85	62
<i>Synagrops bellus</i>	1.25	15	2.85	
<i>Nesumia suilla</i>	1.00	35	2.28	
<i>Phrynichthys sp</i>	1.00	15	2.28	
<i>Hydrolagus mirabilis</i>	1.00	5	2.28	
<i>Diplophus maderensis</i>	0.87	142	1.41	
<i>Nematocarcinus rotundus</i>	0.62	142	1.41	
<i>Monacitopus agassizii</i>	0.50	57	1.14	
<i>Lampadena luminosa</i>	0.50	22	1.14	
<i>Bathypterois viridensis</i>	0.50	20	1.14	
<i>Gonostoma elongatum</i>	0.50	22	1.14	
<i>Aristeus antillensis</i>	0.50	15	1.14	
<i>Peristadion equadorensis</i>	0.37	7	0.84	63
<i>Promethichthys promethus</i>	0.25	5	0.57	
<i>Melanostoma macrophothus</i>	0.12	2	0.27	
<i>Pasiphaea merriami</i>	0.05	5	0.11	
Total	43.88		99.94	

PROJECT STATION:1042
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1018 Long W 6009
 start stop duration Purpose code: 3
 TIME : 12:05 13:05 60 (min)
 LOG : 7780.00 7782.30 2.30 Area code : 4
 PDEPTH: 382 383 GearCond.code: 1
 RDEPTH: 382 383 Validity code: 1
 Towing dir: 345° Wire out:1100 m Speed: 23 kn*10
 Sorted: 91 Kg Total catch: 3406.00 CATCH/HOUR: 3486.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Aricomma bondi</i>	3282.80	84201	94.17	64
<i>Synagrops bellus</i>	58.00	1276	1.66	
<i>Steindachneria argenta</i>	46.40	1044	1.33	
<i>Carcharias signatus</i>	37.50	1	1.08	
<i>Parasudis truculentus</i>	34.80	1044	1.00	
<i>Peneopsis serrata</i>	4.40	228	0.13	
<i>Bathynomus giganteus</i>	4.00	10	0.11	
<i>Nealotus tripes</i>	3.75	25	0.11	
<i>Promethichthys promethus</i>	3.00	15	0.09	
<i>Illex sp</i>	2.70	14	0.08	
<i>Chlorophthalmus sp.</i>	2.32	464	0.07	
<i>Taractichthys longipinnis</i>	2.20	1	0.06	
<i>Geryon quinqueidens</i>	1.40	1	0.04	
<i>Peneopsis serrata</i>	0.60	84	0.02	
<i>Polymixia lowei</i>	0.50	10	0.01	
<i>Decapterus tabl</i>	0.40	1	0.01	
<i>Stereomastis sculpta</i>	0.36	12	0.01	
<i>Peneopsis sp</i>	0.20	10	0.01	
<i>Plesionika edwardsii</i>	0.20	18	0.01	
<i>Xenolepidichthys dalgleishi</i>	0.20	20	0.01	
Total	3485.73		100.01	

PROJECT STATION:1043
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1022 Long W 6008
 start stop duration Purpose code: 3
 TIME : 14:04 15:04 60 (min)
 LOG : 7786.30 7788.30 2.00 Area code : 4
 PDEPTH: 442 442 GearCond.code: 1
 RDEPTH: 442 442 Validity code: 1
 Towing dir: 345° Wire out:1250 m Speed: 20 kn*10
 Sorted: 37 Kg Total catch: 112.60 CATCH/HOUR: 112.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Synagrops bellus</i>	41.60	624	36.94	
<i>Steindachneria argenta</i>	16.00	272	14.21	
<i>Xiphias gladius</i>	9.50	1	8.44	
<i>Peneopsis serrata</i>	6.60	856	5.86	
<i>Peneopsis sp</i>	5.20	204	4.62	
<i>Illex coindetti</i>	5.20	28	4.62	
<i>Chlorophthalmus sp.</i>	4.00	160	3.55	
<i>Epigonus macrops</i>	3.60	52	3.20	
<i>Bathynomus giganteus</i>	3.00	4	2.66	
<i>Malacocephalus occidentalis</i>	2.20	24	1.95	
<i>Trichiurus lepturus</i>	2.00	96	1.78	
<i>Diplophus maderensis</i>	2.00	160	1.78	
<i>Parasudis truculentus</i>	2.00	32	1.78	
<i>Torpedo nobiliana</i>	2.00	1	1.78	
<i>Nesumia suilla</i>	1.60	56	1.42	
<i>Promethichthys promethus</i>	1.40	24	1.24	
<i>Xenolepidichthys dalgleishi</i>	1.20	56	1.07	
<i>Stereomastis sculpta</i>	1.00	32	0.89	
<i>Polysetta corythaeola</i>	0.80	28	0.71	
<i>Glyphocrangon neglecta</i>	0.60	136	0.53	
<i>Gurgesiella atlantica</i>	0.50	2	0.44	
<i>Rossia antillensis</i>	0.30	2	0.27	
<i>Etoporus pusillus</i>	0.20	4	0.18	
<i>Hydrolagus mirabilis</i>	0.08	4	0.07	
<i>Peristadion equadorensis</i>	0.00	16		
<i>Chaunax pictus</i>	0.00	8		
PECBRO3	0.00	4		
Total	112.58		99.99	

PROJECT STATION:1044
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1027 Long W 6000
 start stop duration Purpose code: 3
 TIME : 16:54 17:54 60 (min)
 LOG : 7802.60 7804.90 2.30 Area code : 4
 PDEPTH: 722 655 GearCond.code: 1
 RDEPTH: 722 655 Validity code: 1
 Towing dir: 314° Wire out: 200 m Speed: 23 kn*10
 Sorted: 16 Kg Total catch: 65.45 CATCH/HOUR: 65.45

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Stereomastis sculpta</i>	10.50	294	16.04	
<i>Pholidoteuthis adami</i>	6.40	5	9.78	
NETTASTOMATIDAE	4.50	63	6.88	
<i>Coelorinchus oca</i>	3.60	24	5.50	
<i>Bathygadus melanobranchus</i>	3.60	27	5.50	
<i>Gadomus arcuatus</i>	3.00	45	4.58	
<i>Bathynomus giganteus</i>	3.00	75	4.58	
<i>Acanthephyra armata</i>	2.90	110	4.43	
<i>Nesumia suilla</i>	2.40	48	3.67	
<i>Hydrolagus mirabilis</i>	2.40	9	3.67	
<i>Geryon quinqueidens</i>	2.30	2	3.51	
<i>Neosopelus macrolepidotus</i>	2.10	24	3.21	
<i>Nephropsis sp</i>	2.10	84	3.21	
<i>Plesiopeanus edwardsianus</i>	2.00	35	3.06	
<i>Synagrops bellus</i>	1.80	18	2.75	65
<i>Malacocephalus occidentalis</i>	1.80	12	2.75	
<i>Monacitopus agassizii</i>	1.50	3	2.29	
<i>Coloconger meadi</i>	1.20	9	1.83	
<i>Yarrella blackfordi</i>	1.20	21	1.83	
<i>Peristadion equadorensis</i>	0.90	21	1.38	
<i>Talismania oregonia</i>	0.75	6	1.15	
<i>Illex coindetti</i>	0.70	4	1.07	
<i>Snyderidia bothrops</i>	0.60	3	0.92	
<i>Nettastoma melanurus</i>	0.60	9	0.92	
<i>Xenoderichthys socialis</i>	0.60	18	0.92	
<i>Gonostoma elongatum</i>	0.60	15	0.92	
<i>Bathypterois viridensis</i>	0.60	15	0.92	
<i>Epatretus sp</i>	0.50	1	0.76	
<i>Dibranchius atlanticus</i>	0.45	6	0.69	
<i>Aristeus antillensis</i>	0.40	10	0.61	
<i>Maulisia maui</i>	0.30	15	0.46	
<i>Epigonus macrops</i>	0.15	3	0.23	
Total	65.45		100.02	

PROJECT STATION:1045
 DATE:16/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1031 Long W 5958
 start stop duration Purpose code: 3
 TIME : 19:49 20:49 60 (min)
 LOG : 7815.60 7817.80 2.20 Area code : 4
 PDEPTH: 817 777 GearCond.code: 1
 RDEPTH: 817 777 Validity code: 1
 Towing dir: 290° Wire out:2100 m Speed: 22 kn*10
 Sorted: 15 Kg Total catch: 44.22 CATCH/HOUR: 44.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
<i>Pholidoteuthis adami</i>	6.00	4	13.57	
<i>Bathynomus giganteus</i>	5.80	112	13.12	
<i>Stereomastis sculpta</i>	5.00	220	11.31	
<i>Plesiopeanus edwardsianus</i>	3.20	52	7.24	
<i>Glyphocrangon aurantica</i>	2.20	356	4.98	
<i>Neolithodes agassizii</i>	2.20	1	4.98	
<i>Aldrovandia oleosa</i>	2.00	38	4.52	
<i>Coloconger meadi</i>	2.00	4	4.52	
<i>Coelorinchus oca</i>	2.00	6	4.52	
<i>Gadomus arcuatus</i>	2.00	12	4.52	
<i>Monacitopus agassizii</i>	1.80	56	4.07	
<i>Nettastoma melanurus</i>	1.60	6	3.67	
<i>Lamprogrammus niger</i>	1.00	8	2.26	
<i>Bathygadus melanobranchus</i>	1.00	8	2.26	
<i>Nephropsis sp</i>	1.00	82	2.26	
<i>Acanthephyra armata</i>	0.80	36	1.81	
<i>Nematocarcinus rotundus</i>	0.80	40	1.81	
<i>Talismania oregonia</i>	0.60	4	1.36	
<i>Nesumia suilla</i>	0.60	4	1.36	
RAJIDAE	0.60	2	1.36	
<i>Malacocephalus occidentalis</i>	0.40	6	0.90	
<i>Bathypterois viridensis</i>	0.40	10	0.90	
<i>Melanostoma bisulcatus</i>	0.40	2	0.90	
<i>Apristurus parvipinnis</i>	0.40	8	0.90	
<i>Serrivomer parabani</i>	0.20	2	0.45	
<i>Bathypterois quadrifilis</i>	0.20	2	0.45	
<i>Peristadion equadorensis</i>	0.20	4	0.45	
<i>Malacoosteus niger</i>	0.20	2	0.45	
<i>Gibberichthys pumilus</i>	0.20	4	0.45	
<i>Argyropelecus sp</i>	0.02	2	0.05	
Total	44.22		99.99	

PROJECT STATION:1046
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1026
 start stop duration Long W 6039
 TIME : 06:55 07:25 30 (min) Purpose code: 3
 LOG :7889.50 7890.40 0.90 Area code : 4
 FDEPTH: 51 46 GearCond.code: 1
 BDEPTH: 51 46 Validity code: 1
 Towing dir: 300° Wire out: 250 m Speed: 18 kn*10

Sorted: 34 Kg Total catch: 34.29 CATCH/HOUR: 68.58

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Sphyræna guachancho	17.80	32	25.96
Sphyræna picudilla	0.00	42	11.67
Rhisorionodon islandii	7.00	10	10.21
Chloroscombrus chrysurus	6.00	178	8.75
Loligo pealei	5.00	492	7.29
Rhomboplites aurorubens	4.80	138	7.00
Calanus penna	3.50	6	5.10
Selar crumenophthalmus	3.40	96	4.96
Mustelus higmani	3.00	4	4.37
Lutjanus synagris	2.30	12	3.35
Trachinotus cayennensis	1.80	2	2.62
Opisthonema oglinum	1.60	36	2.33
Lutjanus purpureus	1.20	10	1.75
Scorpaenodes cavalla	1.00	6	1.46
Selene setapinnis	0.80	6	1.17
Priacanthus arenatus	0.40	2	0.58
Haemulon striatum	0.40	10	0.58
Decapterus punctatus	0.40	18	0.58
Upeneus parvus	0.10	2	0.15
Eucinostomus gula	0.04	4	0.06
Etrumeus teres	0.04	2	0.06
Total	68.58		100.00

PROJECT STATION:1047
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1025
 start stop duration Long W 6046
 TIME : 08:25 08:45 20 (min) Purpose code: 3
 LOG :7895.30 7896.00 0.70 Area code : 4
 FDEPTH: 33 26 GearCond.code: 5
 BDEPTH: 33 26 Validity code: 1
 Towing dir: 255° Wire out: 200 m Speed: 14 kn*10

Sorted: 83 Kg Total catch: 90.10 CATCH/HOUR: 270.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	141.15	42	52.22
Aluterus monoceros	30.60	24	11.32
Lutjanus joca	18.00	6	6.66
Decapterus punctatus	16.80	1236	6.22
Lutjanus synagris	12.00	24	4.44
Lutjanus purpureus	9.90	3	3.66
Pomacanthus paru	9.00	9	3.33
Rhomboplites aurorubens	9.00	24	3.33
Calanus penna	8.40	21	3.11
Laohnolaimus maximus	6.00	3	2.22
Haemulon plumieri	2.40	3	0.89
Lycodontis soringa	1.80	3	0.67
Myxeroperca oidi	1.80	3	0.67
Calanus pennatula	1.50	3	0.55
Scorpaenodes cavalla	0.75	3	0.28
Sardinella aurita	0.60	84	0.60
Loligo pisi	0.36	60	0.13
Chloroscombrus chrysurus	0.24	12	0.09
Holocentrus adscensionis	0.00	3	
Total	270.30		100.01

PROJECT STATION:1048
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1017
 start stop duration Long W 6048
 TIME : 10:27 10:57 30 (min) Purpose code: 3
 LOG :7912.30 7913.40 1.10 Area code : 4
 FDEPTH: 35 33 GearCond.code: 1
 BDEPTH: 35 33 Validity code: 1
 Towing dir: 300° Wire out: 200 m Speed: 22 kn*10

Sorted: 41 Kg Total catch: 41.53 CATCH/HOUR: 83.06

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Conodon nobilis	23.40	70	28.17
Scorpaenodes cavalla	16.80	18	20.23
Rhisorionodon porosus	9.40	18	11.32
Opisthonema oglinum	9.00	274	10.84
Sphyræna guachancho	7.40	16	9.91
Sphyræna picudilla	6.00	30	7.22
Loligo pisi	4.00	480	4.82
Chloroscombrus chrysurus	3.00	60	3.61
Lutjanus purpureus	1.60	2	1.93
Eucinostomus argenteus	1.60	30	1.93
Upeneus parvus	0.60	16	0.72
Selar crumenophthalmus	0.10	10	0.12
Rhomboplites aurorubens	0.10	4	0.12
Selene setapinnis	0.04	2	0.05
Decapterus punctatus	0.02	2	0.02
Total	83.06		100.01

PROJECT STATION:1049
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1013
 start stop duration Long W 6049
 TIME : 12:43 13:08 25 (min) Purpose code: 3
 LOG :7928.30 7929.20 0.90 Area code : 4
 FDEPTH: 35 24 GearCond.code: 8
 BDEPTH: 35 24 Validity code: 2
 Towing dir: 310° Wire out: 200 m Speed: 2 kn*10

Sorted: 49 Kg Total catch: 49.00 CATCH/HOUR: 119.52

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Lutjanus analis	19.68	14	16.47
Sphyræna guachancho	19.20	34	16.06
Scorpaenodes cavalla	14.08	24	12.45
Aluterus monoceros	13.20	14	11.04
Calanus penna	10.80	26	9.04
Pomacanthus paru	6.36	5	5.32
Opisthonema oglinum	6.24	190	5.22
Loligo pealei	4.80	510	4.02
Priacanthus arenatus	3.12	10	2.61
Balistes vetula	2.64	7	2.21
Sphyræna picudilla	2.40	14	2.01
Lutjanus synagris	2.40	14	2.01
Haemulon striatum	2.40	79	2.01
Selene vomer	2.40	5	2.01
Calanus pennatula	1.68	2	1.41
Acanthurus chirurgus	1.68	2	1.41
Chloroscombrus chrysurus	1.44	72	1.20
Haemulon plumieri	1.20	5	1.00
Cephalopholis orcutata	0.84	2	0.70
Rhomboplites aurorubens	0.72	19	0.60
Decapterus punctatus	0.72	17	0.60
Acanthostracion quadricornis	0.72	2	0.60
Total	119.52		100.00

PROJECT STATION:1050
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1006
 start stop duration Long W 6041
 TIME : 15:31 15:51 20 (min) Purpose code: 3
 LOG :7946.30 7946.90 0.60 Area code : 4
 FDEPTH: 62 59 GearCond.code: 1
 BDEPTH: 62 59 Validity code: 1
 Towing dir: 310° Wire out: 300 m Speed: 18 kn*10

Sorted: 45 Kg Total catch: 67.24 CATCH/HOUR: 201.72

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Mustelus higmani	24.00	42	11.90
Anchoviella lepidentostole	18.00	3060	8.92
Harengula jaguana	16.00	456	8.33
Peprilus paru	15.00	69	7.44
Cynoscion acoupa	14.10	96	6.99
Selene setapinnis	12.00	360	5.85
Lutjanus purpureus	11.70	3	5.80
Opisthonema oglinum	10.80	348	5.35
Caranx crysos	10.80	27	5.35
Sphyræna guachancho	10.20	24	5.06
Trichurus lepturus	9.60	384	4.76
Chloroscombrus chrysurus	9.60	168	4.76
Rhisorionodon porosus	7.80	6	3.87
Upeneus parvus	4.80	72	2.38
Lutjanus purpureus	3.90	36	1.93
Pomacanthus arenatus	3.60	246	1.78
Saurida normani	2.70	18	1.34
Synodus foetens	2.70	15	1.34
Loligo pealei	2.40	144	1.19
Sphyræna picudilla	2.10	15	1.04
Prionotus punctatus	1.80	6	0.74
Lutjanus synagris	1.50	3	0.74
Pomacanthus saltatrix	1.50	3	0.74
Selar crumenophthalmus	1.20	36	0.59
Cyclosetta chittendeni	0.90	3	0.45
Eucinostomus gula	0.60	12	0.30
Scorpaenodes cavalla	0.60	3	0.30
Ogcocephalus nasutus	0.45	3	0.22
Priacanthus arenatus	0.30	3	0.15
Isopisthus parvipinnis	0.12	12	0.06
Serranus atrobranchius	0.12	12	0.06
Pomacanthus brasiliensis	0.03	6	0.01
Total	201.72		99.99

PROJECT STATION:1051
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1005
 start stop duration Long W 6051
 TIME : 16:49 17:19 30 (min) Purpose code: 3
 LOG :7954.90 7956.40 1.50 Area code : 4
 FDEPTH: 55 54 GearCond.code: 1
 BDEPTH: 55 54 Validity code: 1
 Towing dir: 260° Wire out: 300 m Speed: 30 kn*10

Sorted: 10 Kg Total catch: 104.50 CATCH/HOUR: 209.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Harengula jaguana	33.60	1992	16.00
Pellona harroweri	24.00	576	11.48
Trichurus lepturus	21.60	336	10.33
Cynoscion jamaicensis	16.80	312	8.04
Lutjanus synagris	14.40	54	6.70
Penaeus subtilis	11.40	30	5.45
Penaeus notialis	9.00	996	4.31
Upeneus parvus	7.80	156	3.73
Chloroscombrus chrysurus	7.20	144	3.44
Sphyræna picudilla	7.20	24	3.44
Saurida normani	7.20	96	3.44
Eucinostomus gula	7.20	144	3.44
Dagre marinus	5.40	6	2.58
Chirocentron bleekorianus	4.80	576	2.30
Loligo pealei	4.80	216	2.30
Ctenosciades gracilicirrhus	4.80	72	2.30
Mustelus higmani	4.00	8	1.91
Cynoscion acoupa	3.60	2	1.72
Pomacanthus saltatrix	3.40	6	1.63
Saurida brasiliensis	3.36	336	1.61
Lutjanus purpureus	2.80	28	1.34
Cynoscion virescens	1.60	2	0.77
Selene setapinnis	1.20	72	0.57
Rhisorionodon porosus	0.80	2	0.36
Serranus atrobranchius	0.48	96	0.23
Cyclosetta chittendeni	0.30	6	0.14
Penaeus subtilis	0.24	24	0.11
Penaeus brasiliensis	0.24	48	0.11
Hemicaranx amblyrhynchus	0.18	6	0.09
Trachypenaeus sp	0.00	6	
Total	209.00		99.97

PROJECT STATION:1052
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1005
 start stop duration Long W 6101
 TIME : 18:55 19:25 30 (min) Purpose code: 3
 LOG :6968.00 7969.30 1.30 Area code : 4
 FDEPTH: 35 36 GearCond.code: 1
 BDEPTH: 35 36 Validity code: 1
 Towing dir: 240° Wire out: 200 m Speed: 26 kn*10

Sorted: 27 Kg Total catch: 104.86 CATCH/HOUR: 209.72

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
weight	numbers		
Cynoscion jamaicensis	53.90	834	25.70
Eucinostomus gula	31.50	1702	18.02
Selene setapinnis	28.00	980	13.35
Porichthys pauciradiatus	15.80	632	7.53
Ctenosciades gracilicirrhus	7.70	78	3.67
Penaeus notialis	7.70	1100	3.67
Prionotus punctatus	7.00	64	3.34
Lutjanus synagris	7.00	120	3.34
Synodus foetens	6.60	104	3.15
Peprilus paru	4.90	14	2.34
Microgopogonias furnieri	4.80	10	2.29
Trachypenaeus subtilis	4.20	1904	2.00
Penaeus brasiliensis	3.00	462	1.81
Lepididium profundorum	3.50	154	1.67
Saurida normani	2.80	112	1.34
Cyclosetta pt.	2.10	126	1.00
Trichurus lepturus	2.10	78	1.00
Hemicaranx amblyrhynchus	2.10	8	1.00
Conodon nobilis	2.00	6	0.95
Chirocentron bleekorianus	1.00	910	0.66
Diplostrum bivittatus	1.40	22	0.67
Pellona harroweri	1.40	50	0.67
Upeneus parvus	1.40	10	0.67
Narcine brasiliensis	1.40	2	0.67
Mustelus higmani	1.40	8	0.67
Hoplunnis diomedianus	1.00	20	0.48
Anchoviella brevirostris	0.70	434	0.33
Lutjanus purpureus	0.70	72	0.33
Cyclosetta chittendeni	0.36	8	0.17
Anchoviella lepidentostole	0.36	154	0.17
Diplostrum radiale	0.22	20	0.10
Anchoa cayorum	0.08	20	0.10
Squilla empusa	0.00	22	
Total	209.72		100.00

PROJECT STATION:1053
 DATE:17/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 958 Long W 6101
 start stop duration
 TIME : 20:36 21:06 30 (min) Purpose code: 3
 LOG : 7976.30 7977.50 1.20 Area code : 4
 FDEPTH: 52 46 GearCond.code: 1
 BDEPTH: 52 46 Validity code: 1
 Towing dir: 340° Wire out: 200 m Speed: 24 kn*10
 Sorted: 16 Kg Total catch: 74.15 CATCH/HOUR: 148.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Ctenosciaena gracilicirrus	34.80	900	23.47	
Micropogonias furnieri	24.40	52	16.45	90
Cynoscion jamaicensis	24.00	618	16.18	93
Mustelus higmani	11.00	24	7.42	
Trichiurus lepturus	10.00	114	7.28	
Anchoviella brevirostris	8.40	1800	5.66	
Cynoscion virescens	8.00	16	5.39	91
Pomadasys croceus	6.00	36	4.05	
Lutjanus synagris	4.40	12	2.97	92
Chirocentron bleakerianus	2.40	576	1.52	
Penaeus subtilis	1.80	144	1.21	
Trachypenaeus sp	1.80	468	1.21	
Prionotus punctatus	1.80	24	1.21	
Porichthys pauciradiatus	1.80	66	1.21	
Lepophidium profundorum	1.80	6	1.21	
Cyclosetta sp.	1.50	42	1.01	
Rucinostomus gula	1.50	60	1.01	
Sardinella sanctaelsuciae	0.90	6	0.61	
Penaeus brasiliensis	0.60	54	0.40	
Penaeus notialis	0.30	54	0.20	
Harengula jaguana	0.30	36	0.20	
Pellona harroweri	0.00	30	0.20	
Total	140.30		99.97	

PROJECT STATION:1056
 DATE:18/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 956 Long W 6110
 start stop duration
 TIME : 09:09 09:39 30 (min) Purpose code: 3
 LOG : 8021.30 8022.40 1.10 Area code : 4
 FDEPTH: 56 54 GearCond.code: 1
 BDEPTH: 56 54 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 22 kn*10
 Sorted: 11 Kg Total catch: 193.36 CATCH/HOUR: 306.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	94.20	3870	24.36	
Ctenosciaena gracilicirrus	76.40	2290	19.76	
Pomadasys croceus	56.00	266	14.48	
Chirocentron bleakerianus	48.40	11738	12.52	99
Trichiurus lepturus	28.00	1120	7.24	
Bagre marinus	22.40	28	5.79	
Pellona harroweri	15.20	1424	3.93	
Cynoscion similis	15.20	100	3.93	
Lutjanus synagris	9.40	14	2.43	
Peprilus paru	7.00	56	1.81	
Lutjanus purpureus	4.70	18	1.22	
Cynoscion virescens	2.60	4	0.67	
Pomatomus saltatrix	2.00	4	0.41	
Selene setapinnis	1.60	2	0.41	
Loligo pealei	1.50	356	0.39	
Rhizoprionodon landalii	1.20	2	0.31	
Rucinostomus argenteus	0.50	50	0.13	
Penaeus subtilis	0.42	182	0.11	
Total	386.72		100.01	

PROJECT STATION:1054
 DATE:18/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 946 Long W 6109
 start stop duration
 TIME : 05:50 06:20 30 (min) Purpose code: 3
 LOG : 8004.00 8005.20 1.20 Area code : 4
 FDEPTH: 18 16 GearCond.code: 1
 BDEPTH: 18 16 Validity code: 1
 Towing dir: 290° Wire out: 100 m Speed: 25 kn*10
 Sorted: 11 Kg Total catch: 258.09 CATCH/HOUR: 516.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoviella brevirostris	176.80	59404	34.25	
Scomberomorus brasiliensis	94.00	212	18.21	94
Pellona harroweri	66.40	12668	12.86	
Harengula jaguana	44.20	4124	8.56	
Macrond ancydon	36.00	504	6.97	
Lyceengraulis grossidens	18.00	200	3.49	
Anchoviella lepidentostole	11.00	1842	2.13	
Oligoplites sp	8.80	10	1.70	
Trichiurus lepturus	8.40	420	1.63	
Stellifer microps	7.20	276	1.39	
Penaeus schmitti	6.00	194	1.16	
Albula vulpina	6.00	2	1.16	
Opisthonema oglinum	5.90	294	1.14	
Anchoa spinifer	4.80	348	0.93	
Stellifer gaissei	3.60	216	0.70	
Peprilus paru	3.60	120	0.70	
Rhizoprionodon porosus	3.20	4	0.62	
Ceraxx hippos	3.00	2	0.58	
Bagre marinus	2.20	222	0.43	
Mustelus higmani	2.00	4	0.39	
Cynoscion virescens	2.00	10	0.39	
Odonotagus mucronatus	1.50	442	0.29	
Nabris microps	0.60	12	0.12	
Genystrampus luteus	0.60	24	0.12	
Penaeus subtilis	0.24	18	0.05	96
Xiphopenaeus kroyeri	0.14	32	0.03	
Total	516.18		100.00	

PROJECT STATION:1057
 DATE:10/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1001 Long W 6110
 start stop duration
 TIME : 10:37 11:07 30 (min) Purpose code: 3
 LOG : 8030.20 8031.20 1.00 Area code : 4
 FDEPTH: 31 32 GearCond.code: 1
 BDEPTH: 31 32 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 2 kn*10
 Sorted: 80 Kg Total catch: 248.72 CATCH/HOUR: 497.44

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoscion jamaicensis	133.80	2720	26.90	
Trichiurus lepturus	80.28	3434	16.14	
Lutjanus synagris	44.40	158	8.93	100
Micropogonias furnieri	40.00	106	8.04	101
Anchoviella brevirostris	34.24	21186	6.88	103
Chirocentron bleakerianus	31.22	9990	6.28	
Peprilus paru	22.30	134	2.69	
Pellona harroweri	13.38	7046	2.48	
Carcharhinus acronotus	12.00	2	2.41	
Anchoviella lepidentostole	11.14	4816	2.24	102
Cynoscion virescens	10.00	8	2.01	
Sphyrna tiburo	9.00	4	1.81	
Sphyrna guachancho	8.92	44	1.79	
Opisthonema oglinum	8.92	3212	1.79	
Rhizoprionodon landalii	7.60	14	1.53	
Pomatomus saltatrix	5.00	4	1.17	
Lagocephalus laevigatus	4.40	4	0.80	
Mustelus higmani	4.00	10	0.80	
Chaetodipterus faber	3.40	2	0.68	
Anchoa cayorum	2.66	1784	0.53	
Menticirrhus americanus	2.50	6	0.50	
Diplletrum bivittatum	2.22	44	0.45	
Scomberomorus brasiliensis	2.00	4	0.40	
Ctenosciaena gracilicirrus	1.78	44	0.36	
Loligo pealei	0.88	446	0.18	
Harengula jaguana	0.44	134	0.09	
Lutjanus purpureus	0.16	2	0.03	
Total	497.44		99.99	

PROJECT STATION:1055
 DATE:10/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 952 Long W 6110
 start stop duration
 TIME : 07:20 07:50 30 (min) Purpose code: 3
 LOG : 8012.50 8013.80 1.30 Area code : 4
 FDEPTH: 44 41 GearCond.code: 1
 BDEPTH: 44 41 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 26 kn*10
 Sorted: 14 Kg Total catch: 115.82 CATCH/HOUR: 231.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chirocentron bleakerianus	48.00	14778	20.72	
Trichiurus lepturus	38.40	2720	16.58	
Cynoscion similis	34.40	440	14.85	97
Cynoscion jamaicensis	19.60	488	8.46	98
Pellona harroweri	19.20	14664	8.29	
Ctenosciaena gracilicirrus	17.60	480	7.60	
Rucinostomus argenteus	16.00	672	6.91	
Bagre marinus	12.00	32	5.18	
Peprilus paru	10.00	96	4.32	
Rhizoprionodon porosus	2.80	10	1.21	
Mustelus higmani	2.00	4	0.86	
Anchoviella brevirostris	1.60	1376	0.69	
Cynoscion virescens	1.60	4	0.69	
Selene setapinnis	1.28	96	0.55	
Anchoa cayorum	1.28	704	0.55	
Scomberomorus cavalla	1.20	2	0.52	
Pomatomus saltatrix	1.00	4	0.43	
Micropogonias furnieri	1.00	4	0.43	
Anchoviella lepidentostole	0.64	288	0.28	
Harengula jaguana	0.64	128	0.28	
Trachinotus caryenensis	0.50	2	0.22	
Lutjanus synagris	0.40	2	0.17	
Penaeus brasiliensis	0.20	24	0.09	
Chaetodipterus faber	0.10	2	0.04	
Loliguncula brevis	0.00	128	0.00	
Selene spixii	0.00	32	0.00	
Total	231.64		100.01	

PROJECT STATION:1058
 DATE:18/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1001 Long W 6119
 start stop duration
 TIME : 12:03 12:33 30 (min) Purpose code: 3
 LOG : 8038.30 8039.60 1.30 Area code : 4
 FDEPTH: 17 17 GearCond.code: 1
 BDEPTH: 17 17 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 26 kn*10
 Sorted: 52 Kg Total catch: 216.51 CATCH/HOUR: 433.02

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoa cayorum	79.20	2940	18.29	
Trichiurus lepturus	74.60	3436	17.23	
Anchoviella brevirostris	40.00	22176	9.24	
Cynoscion jamaicensis	27.00	290	6.24	
Chirocentron bleakerianus	23.80	4884	5.50	
Pellona harroweri	20.70	4968	4.78	
Anchoviella lepidentostole	19.80	5676	4.57	
Synodus foetens	18.60	166	4.30	
Dasyatis guttata	18.00	6	4.16	
Micropogonias furnieri	15.40	34	3.56	
Scomberomorus brasiliensis	12.40	16	2.82	
Diapterus olisthochous	12.00	40	2.77	
Rhizoprionodon landalii	9.30	14	2.15	
Oligoplites saurus	9.00	14	2.08	
Bagre marinus	8.50	10	1.96	
Cynoscion leiarohus	7.60	10	1.76	
Diplletrum bivittatum	6.22	82	1.44	
Selene vomer	6.20	42	1.43	
Cynoscion virescens	4.00	2	0.92	
Aetobatus narinari	4.00	2	0.92	
Sphyrna lewini	3.00	2	0.69	
Lutjanus synagris	2.90	18	0.67	
Cyclosetta sp.	2.08	82	0.48	
Opisthonema oglinum	2.08	332	0.48	
Chaetodipterus faber	1.80	4	0.42	
Pomatomus saltatrix	1.50	2	0.35	
Engraulis eurystole	1.32	528	0.30	
Polydactylus virginicus	1.00	4	0.23	
Symphurus plagiatus	0.42	42	0.10	
Harengula jaguana	0.00	82	0.00	
Total	432.22		99.84	

PROJECT STATION:1059
 DATE:18/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 957 Long W 6119
 TIME : 13:38 14:08 30 (min) Purpose code: 3
 LOG :8045.40 8046.70 1.30 Area code : 4
 FDEPTH: 32 31 GearCond.code: 1
 BDEPTH: 32 31 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 26 kn*10
 Sorted: 60 Kg Total catch: 190.50 CATCH/HOUR: 381.00

PROJECT STATION:1062
 DATE:18/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1001 Long W 6120
 TIME : 22:05 22:35 30 (min) Purpose code: 3
 LOG :8081.70 8082.60 0.90 Area code : 4
 FDEPTH: 18 19 GearCond.code: 1
 BDEPTH: 18 19 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 18 kn*10
 Sorted: 8 Kg Total catch: 178.22 CATCH/HOUR: 356.44

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekeri	75.00	32538	19.69	105
Anchoviella brevirostris	55.20	34510	14.49	
Anchoa cayorum	49.20	355496	12.91	
Pellona harroweri	23.60	10142	6.19	106
Anchoviella lepidentostole	23.60	7898	6.19	
Caranx hippos	16.10	0	4.23	
Micropogonias furnieri	16.00	36	4.20	
Lutjanus synagris	14.00	118	3.67	104
Dasycatis americana	12.50	4	3.28	
Trichiurus lepturus	12.00	00	3.15	
Rhisoprionodon lalandii	12.00	20	3.15	
Cynoscion jamaicensis	11.00	90	2.89	
Cynoscion leiarchus	10.00	14	2.62	
Bagre marinus	10.00	18	2.62	
Peprius paru	8.20	30	2.15	
Trachinotus cayannensis	6.50	8	1.71	
Eucinostomus argenteus	6.20	130	1.63	
Pomatomus saltatrix	6.00	6	1.57	
Selene setapinnis	5.00	70	1.31	
Cynoscion virescens	3.00	2	0.79	
Mustelus higmani	2.80	4	0.73	
Diapterus rhombeus	1.80	20	0.47	
Synodus foetens	0.50	10	0.13	
Epinephelus nigritus	0.40	2	0.10	
Cyclosetta chittendeni	0.40	2	0.10	
Diodon hystrix	0.04	2	0.01	
Sardinella aurita	0.00	394		
Opisthonema oglinum	0.00	590		
Total	301.04		99.99	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekeri	97.20	40268	27.27	
Opisthonema oglinum	76.50	28946	21.46	115
Bucinosomus argenteus	63.00	2340	17.67	
Cynoscion jamaicensis	40.00	340	11.22	114
Porichthys pauciradiatus	19.00	6300	5.55	
Penaeus notialis	10.80	1890	3.03	
Trichiurus lepturus	10.00	160	2.81	
Cynoscion acoupa	10.00	20	2.81	112
Sardinella aurita	6.30	2430	1.77	
Anchoviella lepidentostole	6.30	1980	1.77	
Lutjanus synagris	4.60	56	1.29	113
Penaeus brasiliensis	3.60	810	1.01	
Engraulis surystole	2.70	810	0.76	
Scomberomorus brasiliensis	2.40	2	0.67	
Diapterus olisthostomus	1.00	4	0.28	
Lutjanus purpureus	0.90	450	0.25	
Lutjanus purpureus	0.52	88	0.15	
Diapterus rhombeus	0.50	2	0.14	
Conodon nobilis	0.32	2	0.09	
Trachypenaeus similis	0.00	720		
Bagre marinus	0.00	92		
Prionotus punctatus	0.00	90		
Anchoa spinifer	0.00	90		
Total	356.44		100.00	

PROJECT STATION:1060
 DATE:18/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 953 Long W 6121
 TIME : 15:20 15:50 30 (min) Purpose code: 3
 LOG :8054.80 8055.60 0.80 Area code : 4
 FDEPTH: 35 26 GearCond.code: 1
 BDEPTH: 35 26 Validity code: 1
 Towing dir: 270° Wire out: 175 m Speed: 16 kn*10
 Sorted: 33 Kg Total catch: 107.50 CATCH/HOUR: 215.00

PROJECT STATION:1063
 DATE:18/11/88 start stop duration GEAR TYPE: FT No:4 POSITION:Lat N 959 Long W 6121
 TIME : 23:30 24:00 30 (min) Purpose code: 1
 LOG :8090.00 8092.00 2.00 Area code : 4
 FDEPTH: 0 0 GearCond.code: 1
 BDEPTH: 22 22 Validity code: 1
 Towing dir: 90° Wire out: 50 m Speed: 4 kn*10
 Sorted: 10 Kg Total catch: 85.20 CATCH/HOUR: 170.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pellona harroweri	40.00	20266	18.60	107
Penaeus notialis	29.80	3974	13.86	109
Bagre marinus	21.20	18	9.86	
Stallifer sp	20.00	2160	9.30	
Anchoa spinifer	13.20	4720	6.14	108
Cynoscion sp	13.20	3288	6.14	
Loligo pealei	12.00	760	5.58	
Isopisthus parvipinnis	10.40	840	4.84	
Chaetodipterus faber	8.40	4	4.37	
Micropogonias furnieri	8.20	10	3.81	
Trichiurus lepturus	8.00	640	3.72	
Cynoscion virescens	6.40	6	2.98	
Pomatomus saltatrix	6.40	10	2.98	
Anchoviella lepidentostole	3.20	480	1.49	
Anchoviella brevirostris	2.80	240	1.30	
Rhisoprionodon lalandii	2.50	4	1.16	
Chirocentrodon bleekeri	2.00	440	0.93	
Peprius paru	1.60	40	0.74	
Lagocephalus laevigatus	1.50	2	0.70	
Trachinotus cayannensis	1.40	2	0.65	
Bagre bagre	1.20	2	0.56	
Trichiurus lepturus	0.60	6	0.28	
Total	215.00		99.99	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleekeri	42.00	21936	24.88	
Anchoviella brevirostris	25.44	14840	14.93	
Trichiurus lepturus	20.40	318	11.97	
Opisthonema oglinum	17.80	6986	10.45	116
Micropogonias furnieri	6.00	14	3.52	
Sciaenidae juveniles	5.80	528	3.40	
Penaeus notialis	5.76	1488	3.38	117
Pellona harroweri	5.30	2120	3.11	
Eucinostomus argenteus	4.80	96	2.82	
Trachypenaeus sp	4.32	3552	2.54	
Anchoa cayorum	4.24	248	2.45	
Anchoviella lepidentostole	4.24	848	2.45	
Scomberomorus brasiliensis	3.60	4	2.11	
Cynoscion staidachneri	2.88	48	1.69	
Engraulis surystole	2.88	624	1.69	
Chloroscombrus chrysurus	2.40	240	1.41	
Penaeus brasiliensis	1.92	192	1.13	
Lepophidium profundorum	1.44	96	0.85	
Cyclosetta sp.	1.44	144	0.85	
Rhisoprionodon lalandii	1.30	2	0.76	
Calappa nitida	1.20	18	0.70	
Calappa flammea	1.14	6	0.67	
Calappa sulcata	1.02	12	0.60	
Sardinella aurita	1.00	240	0.59	
Lutjanus synagris	0.48	144	0.28	
Symphurus plagiusa	0.48	48	0.28	
Scomberomorus brasiliensis	0.48	144	0.28	
Lutjanus synagris	0.20	2	0.12	
Harangula jaguana	0.00	48		
Total	170.36		99.99	

PROJECT STATION:1061
 DATE:18/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 953 Long W 6129
 TIME : 16:38 17:08 30 (min) Purpose code: 3
 LOG :8061.90 8063.10 1.20 Area code : 4
 FDEPTH: 18 9 GearCond.code: 1
 BDEPTH: 18 9 Validity code: 1
 Towing dir: 278° Wire out: 125 m Speed: 24 kn*10
 Sorted: 9 Kg Total catch: 250.00 CATCH/HOUR: 500.00

PROJECT STATION:1064
 DATE:19/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 953 Long W 6110
 TIME : 01:37 02:07 30 (min) Purpose code: 3
 LOG :8106.60 8107.90 1.30 Area code : 4
 FDEPTH: 47 42 GearCond.code: 1
 BDEPTH: 47 42 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 26 kn*10
 Sorted: 32 Kg Total catch: 45.94 CATCH/HOUR: 91.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	89.60	672	17.92	
Chirocentrodon bleekeri	57.60	26368	11.52	
Anchoviella brevirostris	51.20	24320	10.24	111
Stallifer griseus	51.20	15872	10.24	
Pellona harroweri	42.20	9472	8.44	110
Bagre marinus	24.32	3072	4.86	
Anchoa spinifer	23.00	7040	4.60	
Symphurus plagiusa	21.80	1024	4.36	
Anchoviella lepidentostole	17.32	8704	3.58	
Xiphopenaeus kroyeri	16.64	9584	3.33	
Macrodon ancylodon	16.60	5088	3.32	
Macrodon ancylodon	15.20	96	3.04	
Harangula jaguana	14.08	3072	2.82	
Trichiurus lepturus	12.80	640	2.56	
Isopisthus parvipinnis	12.80	8960	2.56	
Rhinoptera bonasus	10.00	2	2.00	
Penaeus subtilis	6.40	768	1.28	
Micropogonias furnieri	4.80	4	0.96	
Penaeus notialis	2.56	768	0.51	
Nebria microps	2.50	6	0.50	
Oligoplites saurus	1.80	2	0.36	
Trachypenaeus similis	1.28	1536	0.26	
Anchoa cayorum	1.28	896	0.26	
Micropogonias furnieri	1.12	16	0.22	
Pomatomus saltatrix	1.00	2	0.20	
Mugil curema	0.30	2	0.06	
Porichthys pauciradiatus	0.00	384		
Lepophidium profundorum	0.00	128		
Bagre bagre	0.00	256		
Total	500.00		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	27.90	502	30.37	
Ctenosciaena gracilicirrus	16.50	502	17.96	
Micropogonias furnieri	13.60	22	14.80	
Bucinosomus argenteus	6.60	232	7.18	
Anchoviella brevirostris	5.60	4144	6.09	
Carcharias porosus	5.40	2	5.88	
Trichiurus lepturus	3.30	34	3.59	
Cynoscion virescens	2.80	10	3.11	
Peprius paru	1.66	22	1.81	
Bagre marinus	1.50	12	1.63	
Lutjanus synagris	1.00	4	1.09	
Mustelus higmani	0.90	4	0.98	
Penaeus subtilis	0.84	138	0.91	118
Prionotus punctatus	0.76	18	0.83	
Lepophidium profundorum	0.60	12	0.65	
Sciaenidae juveniles	0.56	414	0.61	
Ogcocephalus notatus	0.46	10	0.50	
Trachypenaeus sp	0.44	504	0.48	
Chirocentrodon bleekeri	0.34	124	0.37	
Pellona harroweri	0.34	134	0.37	
Cyclosetta sp.	0.24	30	0.26	
Opisthonema oglinum	0.22	100	0.24	
Selene vomer	0.06	4	0.07	
Opisthonema oglinum	0.06	4	0.07	
Symphurus plagiusa	0.04	12	0.04	
Cyclosetta chittendeni	0.04	4	0.04	
Selene setapinnis	0.04	4	0.04	
Anchoa spinifer	0.00	12		
Anchoa cayorum	0.00	22		
Porichthys pauciradiatus	0.00	12		
Total	91.86		99.97	

PROJECT STATION:1065
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 946
 start stop duration Long W 6108
 TIME : 03:08 03:38 30 (min) Purpose code: 3
 LOG :0117.40 0118.00 1.40 Area code : 4
 FDEPTH: 20 18 GearCond.code: 1
 BDEPTH: 20 18 Validity code: 1
 Towing dir: 280° Wire out: 100 m Speed: 20 kn*10
 Sorted: 17 Kg Total catch: 71.25 CATCH/HOUR: 142.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Anchoviella brevirostris	21.60	5322	15.16	
Pepilus paru	21.60	48	15.16	
Xiphopenaus kroyeri	16.80	5192	11.79	120
Stellifer maculatus	15.84	1128	11.12	
Macrodon ancylodon	15.20	130	7.16	
Isopisthus parvipinnis	7.20	456	5.05	
Trichiurus lepturus	5.70	156	4.00	
Micropogonias furnieri	5.60	4	3.93	
Anchoa spinifer	4.56	1176	3.20	
Arius sp	4.32	408	3.03	
Stellifer griseus	4.32	264	3.03	
Bagre bagre	4.08	312	2.86	
Cynoscion virescens	3.90	30	2.74	
Penaeus schmitti	3.00	106	2.11	119
Sciaenidae juveniles	1.92	456	1.35	
Mustelus higmani	1.80	4	1.26	
Oligoplites saurus	1.60	2	1.12	
Paralichthys brasiliensis	1.50	16	1.05	
Micropogonias furnieri	1.44	40	1.01	
Shrimps, small, non comm.	1.20	840	0.84	
Symphurus plagiatus	1.20	40	0.84	
Chirocentrodon bleakerianus	0.96	192	0.67	
Lycengrallus grossidons	0.96	48	0.67	
Penaeus subtilis	0.44	24	0.31	
Nebria microps	0.30	4	0.21	
Trachinotus carolinus	0.30	6	0.21	
Gonyatremus luteus	0.16	4	0.11	
Pellona harroweri	0.00	24		
Total	142.50		99.99	

PROJECT STATION:1069
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 953
 start stop duration Long W 6121
 TIME : 17:25 17:55 30 (min) Purpose code: 3
 LOG :0206.00 0207.30 1.30 Area code : 4
 FDEPTH: 34 45 GearCond.code: 1
 BDEPTH: 34 45 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 26 kn*10
 Sorted: 4 Kg Total catch: 190.55 CATCH/HOUR: 381.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Micropogonias furnieri	113.20	120	29.70	125
Anchoa spinifer	64.00	21866	16.79	
Penaeus subtilis	57.60	6464	15.11	126
Pellona harroweri	32.00	18134	8.40	
Sciaenidae juveniles	26.88		7.05	
Stellifer griseus	14.08	2304	3.69	
Isopisthus parvipinnis	12.80	544	3.36	
Cynoscion jamaicensis	9.60	256	2.52	
Cynoscion virescens	8.00	16	2.10	
Lepophidium profundorum	6.40	384	1.68	
Trichiurus lepturus	5.44	352	1.43	
Trachypenaeus similis	4.80	4736	1.26	
Penaeus notialis	4.80	960	1.26	
Lutjanus synagris	3.00	4	0.79	
Carran hippos	3.00	2	0.79	
CONGRIDAE	2.24	32	0.59	
Symphurus plagiatus	1.92	120	0.50	
Bagre marinus	1.60	160	0.42	
Harengula jaguana	1.60	128	0.42	
Arius grandicaesus	1.60	2	0.42	
Bagre marinus	1.60	2	0.42	
Loliguncula brovis	1.28	640	0.34	
Anchoviella lepidentostole	1.28	384	0.34	
Chirocentrodon bleakerianus	1.20	384	0.34	
Rhizoprionodon lalandii	1.10	2	0.29	
Anchoviella brevirostris	0.00	256		
Prionotus punctatus	0.00	32		
Total	381.10		100.01	

PROJECT STATION:1066
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 947
 start stop duration Long W 6100
 TIME : 04:46 04:50 4 (min) Purpose code: 3
 LOG :0129.70 0129.80 0.10 Area code : 4
 FDEPTH: 31 31 GearCond.code: 0
 BDEPTH: 31 31 Validity code: 9
 Towing dir: 270° Wire out: 150 m Speed: 30 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
N O C A T C H	0.00			
Total	0.00			

PROJECT STATION:1070
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 953
 start stop duration Long W 6122
 TIME : 10:50 19:20 30 (min) Purpose code: 3
 LOG :0212.90 0214.40 1.50 Area code : 4
 FDEPTH: 33 33 GearCond.code: 1
 BDEPTH: 33 33 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 3 kn*10
 Sorted: 6 Kg Total catch: 75.78 CATCH/HOUR: 151.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Micropogonias furnieri	43.20	50	28.50	127
Anchoviella brevirostris	14.72	6080	9.71	
Stellifer griseus	14.40	2368	9.50	
Penaeus subtilis	10.72	1104	7.07	128
Sciaenidae juveniles	9.60		6.33	
Macrodon ancylodon	0.60	80	5.67	
Cynoscion virescens	7.80	8	5.15	
Anchoa spinifer	7.36	672	4.86	
Cynoscion jamaicensis	5.60	120	3.69	
Trichiurus lepturus	4.80	208	3.17	
Lepophidium profundorum	4.80	560	3.17	
Trachypenaeus similis	4.16	3968	2.74	
Isopisthus parvipinnis	3.20	256	2.11	
Bairdiella sanctaeluciae	3.20	32	2.11	
Bagre marinus	2.20	2	1.45	
Symphurus plagiatus	1.60	176	1.06	
Pepilus paru	1.60	144	1.06	
Pellona harroweri	1.20	448	0.79	
Cetengraulis edentulus	1.12	112	0.74	
Penaeus notialis	0.80	256	0.53	
CONGRIDAE	0.48	16	0.32	
Anchoviella lepidentostole	0.32	128	0.21	
Engraulis eurystole	0.00	160		
Harengula jaguana	0.00	32		
Porichthys pauciradiatus	0.00	160		
Total	151.48		99.94	

PROJECT STATION:1067
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1005
 start stop duration Long W 6101
 TIME : 07:21 07:51 30 (min) Purpose code: 3
 LOG :0151.00 0152.10 1.10 Area code : 4
 FDEPTH: 36 38 GearCond.code: 1
 BDEPTH: 36 38 Validity code: 1
 Towing dir: 250° Wire out: 200 m Speed: 22 kn*10
 Sorted: 13 Kg Total catch: 114.93 CATCH/HOUR: 229.86

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentrodon bleakerianus	101.00	26512	43.94	121
Lutjanus synagris	26.60	132	11.57	
Cynoscion jamaicensis	20.30	406	0.83	
Selene setapinnis	18.90	540	8.22	
Harengula jaguana	10.00	520	4.70	122
Sphyrna guachancho	7.00	112	3.05	123
Sphyrna media	5.00	2	2.52	
Pepilus paru	5.60	22	2.44	
Rhizoprionodon lalandii	5.20	10	2.26	
Synodus foetens	5.20	48	2.26	
Chaetodipterus faber	4.00	2	1.74	
Sphyrna picudilla	3.20	22	1.39	
Prionotus stearnsi	2.80	22	1.22	
Trichiurus lepturus	2.46	102	1.07	
Upeneus parvus	2.10	22	0.91	
Mustelus higmani	2.00	4	0.87	
Scorpaenidae brasiliensis	1.80	22	0.78	
Anchoviella brevirostris	1.60	742	0.70	
Saurida nemani	1.00	42	0.44	
Chloroscombrus chrysurus	0.70	22	0.30	
Anchoviella lepidentostole	0.56	224	0.24	
Diplacrum bivittatum	0.36	22	0.16	
Lutjanus purpureus	0.30	14	0.13	
Eucinostomus gula	0.28	22	0.12	
Loligo plei	0.16	8	0.07	
Saurida brasiliensis	0.14	28	0.06	
Anchoa spinifer	0.00	28		
Total	229.86		99.99	

PROJECT STATION:1071
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 957
 start stop duration Long W 6120
 TIME : 20:15 20:45 30 (min) Purpose code: 3
 LOG :0220.60 0221.90 1.30 Area code : 4
 FDEPTH: 26 29 GearCond.code: 1
 BDEPTH: 26 29 Validity code: 1
 Towing dir: 270° Wire out: 150 m Speed: 26 kn*10
 Sorted: 18 Kg Total catch: 87.23 CATCH/HOUR: 174.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	52.00	2600	29.81	
Chirocentrodon bleakerianus	24.00	10730	13.76	
Lutjanus synagris	16.20	136	9.29	129
Nareno brasiliensis	12.20	4	6.99	
Cynoscion jamaicensis	11.58	264	6.59	
Micropogonias furnieri	11.40	26	6.53	
Lepophidium profundorum	9.80	540	5.82	
Trachypenaeus similis	6.40	3488	3.67	
Trichiurus lepturus	6.00	52	3.44	
Synodus foetens	4.60	40	2.64	
Lutjanus purpureus	2.70	226	1.55	130
Cynoscion leiarochus	2.60	44	1.55	
Diplacrum bivittatum	2.40	4	1.49	
Penaeus notialis	2.24	304	1.28	
Pepilus paru	2.00	4	1.15	
Cyclopesetta chittendeni	1.64	68	0.94	
Porichthys pauciradiatus	1.60	560	0.92	
Opisthoneura ophiura	1.20	64	0.69	
Penaeus brasiliensis	1.12	128	0.64	
Anchoviella lepidentostole	0.80	112	0.46	
Umbriina coroides	0.70	2	0.40	
Squilla empusa	0.48	16	0.28	
Chloroscombrus chrysurus	0.20	8	0.11	
Selene setapinnis	0.12	4	0.07	
Prionotus punctatus	0.08	4	0.05	
Anchoa cayorum	0.00	16		
Engraulis eurystole	0.00	32		
Total	174.46		100.02	

PROJECT STATION:1068
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 958
 start stop duration Long W 6101
 TIME : 10:36 11:06 30 (min) Purpose code: 3
 LOG :0169.20 0170.10 0.90 Area code : 4
 FDEPTH: 53 53 GearCond.code: 1
 BDEPTH: 53 53 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 20 kn*10
 Sorted: 7 Kg Total catch: 113.28 CATCH/HOUR: 226.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	36.90	1408	16.29	
Chirocentrodon bleakerianus	35.20	2624	15.54	
Ctenosciaena gracilicirrus	32.00	1024	14.12	
Cynoscion jamaicensis	30.40	1720	13.42	
Bagre marinus	18.60	26	8.21	
Pellona harroweri	12.80	2624	5.65	
Cynoscion jamaicensis	9.00	128	3.97	
Lutjanus synagris	8.00	14	3.53	
Pepilus paru	7.20	56	3.18	
Cynoscion virescens	7.20	16	3.18	
Harengula jaguana	6.40	608	2.82	
Pomatomus saltatrix	5.80	10	2.56	
Penaeus subtilis	4.80	368	2.12	
Selene setapinnis	3.60	8	1.59	
Selene setapinnis	1.92	96	0.85	
Myliobatis freminvillei	1.00	2	0.79	
Loligo penaei	1.28	224	0.56	
Bairdiella sanctaeluciae	1.20	8	0.53	
Rhizoprionodon lalandii	1.20	2	0.53	
Eucinostomus argenteus	0.96	32	0.22	
Lutjanus purpureus	0.40	2	0.18	
Total	226.66		100.04	

PROJECT STATION:1072
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1000 Long W 6125
 start stop duration
 TIME : 21:27 21:57 30 (min) Purpose code: 3
 LOG :0226.70 0227.90 1.20 Area code : 4
 FDEPTH: 16 16 GearCond.code: 1
 BDEPTH: 16 16 Validity code: 1
 Towing dir: 270° Wire out: 75 m Speed: 24 kn*10
 Sorted: 5 Kg Total catch: 49.73 CATCH/HOUR: 99.46

PROJECT STATION:1075
 DATE:20/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 958 Long W 6143
 start stop duration
 TIME : 11:13 11:43 30 (min) Purpose code: 3
 LOG :0259.00 0260.50 1.50 Area code : 4
 FDEPTH: 33 32 GearCond.code: 1
 BDEPTH: 33 32 Validity code: 1
 Towing dir: 280° Wire out: 150 m Speed: 30 kn*10
 Sorted: 14 Kg Total catch: 258.07 CATCH/HOUR: 516.14

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	40.40	138	40.62	
Chirocentron bleekermani	12.80	4378	12.87	131
Penaeus brasiliensis	8.80	1466	8.85	132
Eucinostomus argenteus	8.40	712	8.45	
Cynoscion jamaicensis	7.20	248	7.24	
Narcine brasiliensis	4.00	2	4.02	
Cynoscion leiarchus	3.40	6	3.42	
Loligo pealii	2.40	264	2.49	
Scomberomorus brasiliensis	2.30	2	2.31	
Pellona harroweri	1.60	44	1.61	
Porichthys pauciradiatus	1.36	376	1.37	
Penaeus notialis	1.04	168	1.05	
Chloroscobrus chrysurus	0.90	56	0.90	
Anchoviella lepidentostole	0.80	68	0.80	
Engraulis aurytolo	0.64	408	0.64	
Opisthonema oglinum	0.54	128	0.54	
Cyclopetta sp.	0.48	120	0.48	
Isopisthus parvipinnis	0.44	32	0.44	
Opisthonema oglinum	0.40	2	0.40	
Anchoviella brevirostris	0.32	192	0.32	
Diplectrum formosum	0.32	16	0.32	
Gymnothorax ocellatus	0.20	2	0.20	
Anchoa cayoran	0.16	112	0.16	
Synodus foetens	0.16	16	0.16	
Lutjanus purpureus	0.16	768	0.16	
Saurida sp.	0.08	8	0.08	
Diplectrum bivittatum	0.08	8	0.08	
Anchoa spinifer	0.08	8	0.08	
Lepophidium profundorum	0.08	8	0.08	
Rhomboplites aurorubens	0.08	8	0.08	
Total	99.46		99.98	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chaetodipterus faber	72.60	46	14.07	
Macrondon ancyllodon	60.00	320	11.62	
Cynoscion jamaicensis	43.20	972	8.37	
Bagre marinus	40.80	38	7.90	
Isopisthus parvipinnis	36.00	2952	6.97	
Trichiurus lepturus	35.00	400	6.78	
Dasyatis guttata	34.00	2	6.59	
Micropogonias furnieri	30.00	32	5.81	
Ctenosciaena gracilicirrus	25.20	4176	4.88	
Arius grandicaesus	21.20	14	4.11	
Stellifer rastrifer	16.20	1584	3.14	
Aetobatus marinari	16.00	2	3.10	
Pellona harroweri	14.40	3024	2.79	
Penaeus subtilis	10.72	1406	1.96	
Oligoplites saliens	9.00	16	1.90	
Pomatomus saltatrix	9.00	6	1.74	
Genypterus luteus	8.80	34	1.70	
Larimus breviceps	7.20	396	1.39	
Penaeus notialis	6.42	864	1.24	
Anchoa spinifer	3.60	576	0.70	
CONGRIDAE	3.00	10	0.58	
Narcine brasiliensis	2.60	2	0.50	
Menticirrhus americanus	2.50	10	0.48	
Oxycorhinus notatus	1.80	36	0.35	
Chirocentron bleekermani	1.80	216	0.35	
Penaeus brasiliensis	1.22	172	0.24	
Rhinobatos percellens	1.00	2	0.19	
Selene setipinnis	1.00	2	0.19	
Eucinostomus argenteus	0.72	36	0.14	
Loligo sp	0.72	108	0.14	
Trachypnaeus sp	0.24	24	0.05	
Total	516.14		99.97	

PROJECT STATION:1073
 DATE:19/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1000 Long W 6130
 start stop duration
 TIME : 22:30 23:00 30 (min) Purpose code: 3
 LOG :0231.00 0232.30 1.30 Area code : 4
 FDEPTH: 17 16 GearCond.code: 1
 BDEPTH: 17 16 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 26 kn*10
 Sorted: 6 Kg Total catch: 69.00 CATCH/HOUR: 138.00

PROJECT STATION:1076
 DATE:20/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1000 Long W 6148
 start stop duration
 TIME : 12:20 12:50 30 (min) Purpose code: 3
 LOG :0263.70 0264.90 1.20 Area code : 4
 FDEPTH: 32 39 GearCond.code: 1
 BDEPTH: 32 39 Validity code: 1
 Towing dir: 290° Wire out: 100 m Speed: 24 kn*10
 Sorted: 7 Kg Total catch: 79.40 CATCH/HOUR: 158.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Shrimps, small, non comm.	22.80		16.52	
Chirocentron bleekermani	21.60	9792	15.65	
Micropogonias furnieri	17.00	30	12.32	
Eucinostomus argenteus	16.80	840	12.17	
Cynoscion leiarchus	16.70	28	12.10	
Diapterus olisthostomus	5.00	12	3.62	
Opisthonema oglinum	4.80	1776	3.48	133
Penaeus brasiliensis	4.56	1240	3.30	134
Trichiurus lepturus	4.00	20	2.90	
Cynoscion jamaicensis	3.30	52	2.39	
Rhinobatos percellens	3.00	4	2.17	
Elops saurus	2.60	2	1.88	
Synodus foetens	2.40	144	1.74	
Porichthys pauciradiatus	2.40	872	1.74	
Trachypnaeus constrictus	1.44	1320	1.04	
Penaeus notialis	1.44	312	1.04	
Anchoviella brevirostris	1.20	888	0.87	
Engraulis aurytolo	1.20	144	0.87	
Chloroscobrus chrysurus	1.20	48	0.87	
Lutjanus purpureus	1.20	576	0.87	
Cyclopetta sp.	1.20	166	0.87	
Lepophidium profundorum	1.20	72	0.87	
Trachypnaeus similis	0.72	288	0.52	
Penaeus notialis	0.24	24	0.17	
Anchoviella lepidentostole	0.00	8		
Harengula jaguana	0.00	8		
Scomberomorus brasiliensis	0.00	8		
Pellona harroweri	0.00	24		
Total	138.00		99.97	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Micropogonias furnieri	26.60	28	16.73	
Bagre marinus	24.00	32	15.10	
Ctenosciaena gracilicirrus	20.40	1020	12.83	
Trichiurus lepturus	19.00	146	11.95	
Aetobatus marinari	16.00	2	10.07	
Trichiurus lepturus	12.00	912	7.55	
Isopisthus parvipinnis	7.20	2988	4.53	
Bagre bagre	4.90	12	3.08	
Cynoscion jamaicensis	4.50	34	2.83	
Macrondon ancyllodon	3.00	120	1.88	
Anchoa spinifer	3.00	504	1.88	140
Oligoplites saliens	2.80	6	1.76	
Pellona harroweri	2.40	2220	1.51	
Prionotus punctatus	2.40	12	1.51	
Chirocentron bleekermani	2.40	312	1.51	
Porichthys pauciradiatus	2.40	372	1.51	
Penaeus notialis	2.10	322	1.32	138
Sphyrna lewini	1.00	2	0.63	
Penaeus subtilis	0.74	98	0.47	
Symphurus plagiusa	0.60	36	0.38	139
Larimus breviceps	0.60	12	0.38	
Lepophidium profundorum	0.36	24	0.23	
Trachypnaeus sp	0.30	130	0.19	
Penaeus brasiliensis	0.14	16	0.09	
Harengula jaguana	0.12	12	0.08	
Total	158.96		100.02	

PROJECT STATION:1074
 DATE:20/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 956 Long W 6130
 start stop duration
 TIME : 06:11 06:41 30 (min) Purpose code: 3
 LOG :0240.10 0241.30 1.20 Area code : 4
 FDEPTH: 37 37 GearCond.code: 1
 BDEPTH: 37 37 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 24 kn*10
 Sorted: 32 Kg Total catch: 334.40 CATCH/HOUR: 668.80

PROJECT STATION:1077
 DATE:20/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1002 Long W 6157
 start stop duration
 TIME : 13:53 14:20 27 (min) Purpose code: 3
 LOG :0272.10 0273.10 1.00 Area code : 4
 FDEPTH: 29 13 GearCond.code: 1
 BDEPTH: 29 13 Validity code: 1
 Towing dir: 300° Wire out: 150 m Speed: 20 kn*10
 Sorted: 15 Kg Total catch: 398.87 CATCH/HOUR: 886.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cynoscion jamaicensis	388.00	10792	58.01	135
Trichiurus lepturus	118.00	1068	17.64	
Pellona harroweri	78.00	3588	11.66	136
Micropogonias furnieri	24.00	32	3.59	
Ctenosciaena gracilicirrus	20.00	980	2.99	
Lutjanus purpureus	10.00	140	1.50	
Pomatomus saltatrix	6.00	10	0.90	
Rhizoprionodon porosus	5.20	8	0.78	
Chirocentron bleekermani	4.20	740	0.63	
Diplectrum bivittatum	4.00	20	0.60	
Lutjanus synagris	3.00	20	0.45	
Pellona harroweri	2.60	2040	0.39	137
Harengula jaguana	2.60	200	0.39	
Penaeus notialis	2.00	220	0.30	
Loligo sp	0.60	180	0.09	
Anchoa spinifer	0.60	120	0.09	
Porichthys pauciradiatus	0.00	60		
Lepophidium profundorum	0.00	20		
Total	668.80		100.01	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chirocentron bleekermani	112.00	22800	12.64	
Ctenosciaena gracilicirrus	96.00	5360	10.83	
Harengula jaguana	92.00	18880	10.38	
Trichiurus lepturus	78.00	800	7.90	
Opisthonema oglinum	56.00	25600	6.32	
Bufo plumieri	54.00	160	6.09	
Anchoviella brevirostris	47.11	19600	5.31	
Anchoviella lepidentostole	40.00	1360	4.51	
Penaeus notialis	40.00	1200	4.51	
Sardinella aurita	40.00	1120	4.51	
Eucinostomus argenteus	40.00	160	4.51	
Loligo sp	24.00	720	2.71	
Pellona harroweri	24.00	6800	2.71	
Micropogonias furnieri	22.89	73	2.58	
Diapterus olisthostomus	19.56	60	2.31	
Oligoplites saurus	16.22	27	1.83	
Sphyrna guachencho	16.00	160	1.81	
Scomberomorus brasiliensis	16.00	160	1.81	
Cetengraulis edentulus	12.00	3440	1.35	
Cynoscion jamaicensis	12.00	320	1.35	
Anchoa filifera	12.00	6400	1.35	
Trichiurus lepturus	9.60	1040	1.08	
Chaetodipterus faber	8.89	9	1.00	
Orthopristis ruber	5.00	20	0.56	
Bagre bagre	1.11	2	0.13	
Total	886.38		99.99	

PROJECT STATION:1078
 DATE:21/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1043 Long W 6203
 TIME : 19:15 start stop duration
 LOG :0375.00 8376.30 1.30 Purpose code: 1 Area code : 5
 FDEPTH: 10 12 GearCond.code: 1
 BDEPTH: 89 92 Validity code: 3
 Towing dir: 270° Wire out: 50 m Speed: 26 kn*10
 Sorted: 32 Kg Total catch: 416.91 CATCH/HOUR: 833.82

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	748.80	11024	89.80
Etrumeus teres	39.00	1326	4.68
Opisthonema oglinum	20.60	208	3.43
Trachurus lathami	7.00	52	0.94
Loligo pealei	5.20	234	0.62
Harengula jaguana	2.60	130	0.31
Engraulis surystole	1.82	468	0.22
Total	833.82		100.00

PROJECT STATION:1081
 DATE:22/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6258
 TIME : 15:19 start stop duration
 LOG :8546.20 8547.30 1.10 Purpose code: 3 Area code : 5
 FDEPTH: 26 33 GearCond.code: 1
 BDEPTH: 26 33 Validity code: 1
 Towing dir: 170° Wire out: 150 m Speed: 22 kn*10
 Sorted: 30 Kg Total catch: 653.68 CATCH/HOUR: 1307.36

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Haemulon aurolineatum	382.00	5266	27.69
Balistes vetula	220.00	560	16.83
Sardinella aurita	160.00	490	12.24
Haemulon boschmae	140.00	710	10.71
Priacanthus arenatus	104.00	240	7.95
Oocyurus chrysurus	63.40	58	4.85
Acanthurus chirurgus	40.00	40	3.06
Haemulon steindachneri	40.00	200	3.06
Haemulon melanurum	40.00	240	3.06
Mulloidichthys martinicus	20.00	80	1.53
Decapterus punctatus	20.00	1120	1.53
Pomacanthus paru	20.00	40	1.36
Lutjanus analis	17.00	4	0.26
Decapterus macarellus	10.00	960	0.76
Saurida normani	8.00	40	0.61
Acanthostracion quadricornis	6.00	40	0.46
Lutjanus griseus	6.00	8	0.46
Rhizophronodon porosus	5.00	8	0.38
Solar crumenophthalmus	4.80	120	0.37
Haemulon plumieri	3.30	4	0.25
Haemulon parri	3.00	4	0.23
Rhinobatos porcellana	2.96	4	0.23
Panulirus argus	2.50	2	0.19
Pistularia tabacaria	2.40	2	0.18
Lachnolaimus maximus	2.00	4	0.15
Haemulon album	2.00	4	0.15
Sparisoma sp.	1.80	4	0.14
Mustelus higmani	0.40	2	0.03
Total	1307.36		99.99

PROJECT STATION:1079
 DATE:22/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1128 Long W 6300
 TIME : 11:01 start stop duration
 LOG :0512.10 8513.40 1.30 Purpose code: 3 Area code : 5
 FDEPTH: 71 71 GearCond.code: 1
 BDEPTH: 71 71 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 26 kn*10
 Sorted: 26 Kg Total catch: 263.40 CATCH/HOUR: 526.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	310.00	8094	58.05
Upeneus parvus	100.00	3056	18.98
Pristipomoides macrophthalmus	30.00	1100	5.69
Haemulon boschmae	25.00	1440	4.75
Priacanthus arenatus	14.00	120	2.66
Haemulon melanurum	13.20	280	2.51
Serranus phaeus	8.00	240	1.52
Caucalotus cyanops	6.00	20	1.14
Syacium micrurus	6.00	140	1.14
Sphoeroides testudineus	4.00	100	0.76
Seriola sp.	2.20	2	0.42
Decodon puellaris	1.00	20	0.19
Chaetodon sedentarius	1.00	40	0.19
Paralichthys tropicus	1.00	60	0.19
Balistes vetula	1.00	2	0.19
Mustelus canis	1.00	2	0.19
Trachurus lathami	0.80	40	0.15
Chromis sp.	0.60	40	0.11
Saurida normani	0.40	20	0.08
Trachinocephalus myops	0.40	20	0.08
Scorpaena agassizi	0.40	20	0.08
Diplectrum bivittatum	0.40	20	0.08
Dactylopterus volitans	0.40	20	0.08
Prionotus roseus	0.00	20	
Bellator sp.	0.00	20	
Prionotus punctatus	0.00	20	
Total	526.80		100.03

PROJECT STATION:1082
 DATE:22/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1046 Long W 6301
 TIME : 10:10 start stop duration
 LOG :0571.40 8572.20 0.80 Purpose code: 3 Area code : 5
 FDEPTH: 46 41 GearCond.code: 5
 BDEPTH: 46 41 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 24 kn*10
 Sorted: 32 Kg Total catch: 75.80 CATCH/HOUR: 227.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Ctenosciaena gracilicirrus	50.10	600	22.03
Harengula jaguana	22.80	414	10.03
Sardinella aurita	19.20	438	8.44
Pellona harroweri	14.70	438	6.46
Lepophidium profundorum	14.10	498	6.20
Synodus foetens	12.60	60	5.54
Paralichthys tropicus	9.30	12	4.09
Cathorops spixii	8.70	96	3.83
Micropogonias furnieri	8.55	6	3.76
Priacanthus arenatus	7.50	42	3.30
Sphyræna picudilla	6.90	18	3.03
Serranus atrobranchus	5.40	444	2.37
Ruoinostomus argenteus	4.20	48	1.85
Penaeus notialis	4.05	84	1.78
Octopus vulgaris	3.90	12	1.72
Cynoscion jamaicensis	3.00	24	1.32
Calanus cervignoni	3.00	12	1.32
Trachurus lathami	2.40	30	1.06
Porichthys pauciradiatus	2.40	192	1.06
Mustelus higmani	2.40	18	1.06
Ruoinostomus gula	2.10	42	0.92
Syngnathus sp.	1.80	126	0.79
Prionotus punctatus	1.80	24	0.79
Bellator sp.	1.80	72	0.79
Diplectrum formosum	1.80	258	0.79
Rhinobatos porcellana	1.50	3	0.66
CONGRIDAE	1.20	6	0.53
Dactylopterus volitans	1.20	12	0.53
Lonchopisthus higmani	1.20	36	0.53
Penaeus brasiliensis	1.20	24	0.53
Loligo pealei	0.84	36	0.37
Orthopristis ruber	0.70	3	0.34
Saurida normani	0.72	72	0.32
Haemulon steindachneri	0.66	3	0.29
Halichoeres caudalis	0.60	6	0.26
Trichurus lepturus	0.60	24	0.26
Diplectrum bivittatum	0.60	36	0.26
Diplectrum radiale	0.60	6	0.26
Narcine sp.	0.30	6	0.13
Pristipomoides macrophthalmus	0.30	168	0.13
Saurida brasiliensis	0.18	18	0.08
Haemulon boschmae	0.12	30	0.05
Chirocentrodon bleekermanus	0.12	30	0.05
Anchoa filifera	0.12	36	0.05
Engraulis surystole	0.00	24	0.03
Xiphopenaus kroyeri	0.00	48	
Symphurus diomedeanus	0.00	6	
Anchoa lyolepis	0.00	12	
Total	227.40		99.99

PROJECT STATION:1080
 DATE:22/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1118 Long W 6301
 TIME : 13:02 start stop duration
 LOG :0527.60 8528.60 1.00 Purpose code: 3 Area code : 5
 FDEPTH: 30 34 GearCond.code: 1
 BDEPTH: 30 34 Validity code: 1
 Towing dir: 135° Wire out: 150 m Speed: 25 kn*10
 Sorted: 134 Kg Total catch: 134.92 CATCH/HOUR: 351.97

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Sardinella aurita	98.35	1591	27.94
Balistes vetula	91.43	389	25.98
Dicodon sp.	50.40	347	14.34
Priacanthus arenatus	26.09	350	7.41
Acanthostracion quadricornis	21.65	70	6.15
Holocentrus adscensionis	13.83	227	3.93
Fistularia petimba	7.83	21	2.22
Haemulon melanurum	7.83	175	2.22
Acanthurus chirurgus	4.83	115	1.37
Panulirus argus	4.30	5	1.22
Pseudupeneus maculatus	4.10	34	1.16
Rhinobatos porcellana	3.91	3	1.11
Dactylopterus volitans	2.87	10	0.82
Chaetodon sedentarius	2.35	138	0.67
Scorpaena agassizi	2.22	42	0.63
Sparisoma sp.	1.57	8	0.45
Chaetodon striatus	1.30	39	0.37
SCYLLARIDAE	1.30	3	0.37
Diplectrum formosum	0.78	16	0.22
Synodus intermedius	0.78	8	0.22
Acanthurus bahianus	0.52	3	0.15
Decapterus tabl	0.52	8	0.15
Syacium micrurus	0.39	21	0.11
Prionotus punctatus	0.39	18	0.11
Sparisoma rubripinne	0.39	5	0.11
Paralichthys tropicus	0.26	16	0.07
SYNGNATHIDAE	0.26	21	0.07
Chaetodon ocellatus	0.26	8	0.07
Aluturus monoceros	0.10	3	0.03
Synodus sp.	0.08	8	0.02
SCARIDAE	0.08	34	0.02
Sphoeroides spengleri	0.08	5	0.02
Pomacanthus sp.	0.05	10	0.01
Total	351.98		99.74

PROJECT STATION:1083
 DATE:22/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1045 Long W 6314
 TIME : 20:34 start stop duration
 LOG :0591.00 8592.30 1.30 Purpose code: 1 Area code : 5
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 31 31 Validity code: 3
 Towing dir: 270° Wire out: 50 m Speed: 26 kn*10
 Sorted: 33 Kg Total catch: 65.98 CATCH/HOUR: 131.96

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Pellona harroweri	55.20	2154	41.83
Sardinella aurita	51.60	1112	39.10
Cetengraulis edentulus	5.40	440	4.09
Sphyræna picudilla	4.40	12	3.33
Pepilus paru	4.00	16	3.03
Cathorops spixii	2.80	16	2.12
Anchoa lyolepis	2.60	268	1.97
Anchoa lamprotaenia	2.40	736	1.82
Sardinella aurita	1.80	600	1.36
Harengula jaguana	1.20	48	0.91
Opisthonema oglinum	0.48	112	0.36
Engraulis surystole	0.08	52	0.06
Chirocentrodon bleekermanus	0.00	4	
Total	131.96		99.96

PROJECT STATION:1084
 DATE:22/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6315
 start stop duration
 TIME : 22:19 22:49 30 (min) Purpose code: 3
 LOG :0602.60 0603.70 1.10 Area code : 5
 FDEPTH: 52 53 GearCond.code: 1
 DDEPTH: 52 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 22 kn*10
 Sorted: 22 Kg Total catch: 245.45 CATCH/HOUR: 490.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Cathorops spixii	370.00	6756	75.37	
Porichthys pauciradiatus	30.00	460	6.11	
Cynoscion similis	16.00	20	3.26	
Cynoscion similis	14.00	00	2.85	
Diploctrum radiale	6.00	40	1.22	
Pellona harroweri	5.00	100	1.02	
Trichurus lepturus	5.00	20	1.02	
Synodus foetens	5.00	40	1.02	
Prionotus punctatus	5.00	60	1.02	
Ctenosciæna gracilicirrhus	5.00	160	1.02	
Bagro marinus	4.40	2	0.90	
Mustelus higmani	3.60	10	0.73	
Microgogonias furnieri	3.40	2	0.69	
Lepididum profundum	3.00	60	0.61	
Symphurus diomedianus	2.00	40	0.41	
Sciaenidae juveniles	2.00	400	0.41	
Peprilus paru	2.00	4	0.41	
Penaeus brasiliensis	2.00	32	0.41	152
Sphyræna guachancho	1.80	2	0.37	
Rhinobatos porcellens	1.20	2	0.24	
Harangula sp	1.00	40	0.20	
Diploctrum formosum	1.00	20	0.20	
Sardinella aurita	1.00	20	0.20	
Squilla empusa	0.40	20	0.08	
Syacium micrurum	0.40	20	0.08	
Epinephelus niveatus	0.30	2	0.06	
Phrynelox scaber	0.20	20	0.04	
Chirocentron bleekeriannus	0.20	20	0.04	
Total	490.90		99.99	

PROJECT STATION:1085
 DATE:23/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1045 Long W 6328
 start stop duration
 TIME : 01:30 02:08 30 (min) Purpose code: 1
 LOG :0629.30 0630.80 1.50 Area code : 5
 FDEPTH: 10 10 GearCond.code: 1
 DDEPTH: 10 31 Validity code: 2
 Towing dir: 300° Wire out: 50 m Speed: 3 kn*10
 Sorted: 8 Kg Total catch: 43.98 CATCH/HOUR: 87.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis eurystole	63.36	24672	72.03	153
Sphyræna guachancho	8.90	14	10.12	
Sardinella aurita	7.20	2496	0.19	154
Anchoa filifera	2.40	576	2.73	
Sphyræna picidilla	1.00	6	2.05	
Trichurus lepturus	1.60	4	1.82	
Pellona harroweri	1.20	60	1.36	
Harangula jaguana	0.78	30	0.09	
Loligo plei	0.42	44	0.48	
Sardinella aurita	0.30	6	0.34	
Total	87.96		100.01	

PROJECT STATION:1086
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1046 Long W 6346
 start stop duration
 TIME : 06:10 06:40 30 (min) Purpose code: 3
 LOG :0653.90 0655.20 1.30 Area code : 5
 FDEPTH: 12 11 GearCond.code: 1
 DDEPTH: 12 11 Validity code: 1
 Towing dir: 305° Wire out: 75 m Speed: 26 kn*10
 Sorted: 28 Kg Total catch: 786.24 CATCH/HOUR: 1572.48

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	068.00	22058	55.20	155
Haemulon boschmae	504.00	19152	32.05	156
Orthopristis ruber	137.20	1232	8.73	
Haemulon steindachneri	39.20	616	2.49	
Haemulon aurolineatum	10.08	160	0.64	
Decapterus punctatus	8.40	112	0.53	
Serranus dawegari	5.60	56	0.36	
Total	1572.48		100.00	

PROJECT STATION:1087
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6348
 start stop duration
 TIME : 08:13 08:43 30 (min) Purpose code: 3
 LOG :0667.60 0668.70 1.10 Area code : 5
 FDEPTH: 19 21 GearCond.code: 1
 DDEPTH: 19 21 Validity code: 9
 Towing dir: 250° Wire out: 100 m Speed: 22 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Main species as prev.st.	0.00			
Tons of seaweeds	0.00			
Total				

PROJECT STATION:1088
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6338
 start stop duration
 TIME : 10:53 11:23 30 (min) Purpose code: 3
 LOG :0604.40 0605.90 1.50 Area code : 5
 FDEPTH: 34 35 GearCond.code: 1
 DDEPTH: 34 35 Validity code: 1
 Towing dir: 35° Wire out: 200 m Speed: 30 kn*10
 Sorted: 18 Kg Total catch: 46.01 CATCH/HOUR: 92.02

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Harangula jaguana	32.40	604	35.21	157
Sardinella aurita	17.20	252	10.69	158
Loligo plei	13.60	2140	14.78	160
Archosargus rhomboidalis	7.00	16	7.61	
Anchoa hepsetus	5.60	794	6.09	159
Microgogonias furnieri	2.60	6	2.83	
Cynoscion similis	2.20	2	2.39	
Opiathonema oglinum	2.00	8	2.17	
Paralichthys tropicus	1.00	12	1.96	
Rucinostomus argenteus	0.96	32	1.09	
Pristipomoides macrophthalmus	0.92	116	1.00	
Cathorops spixii	0.80	8	0.87	
Saurida sp	0.64	60	0.70	
Upeneus parvus	0.64	56	0.70	
Synodus foetens	0.60	2	0.65	
Haemulon boschmae	0.32	28	0.35	
Trichurus lepturus	0.32	12	0.35	
Syacium micrurum	0.32	44	0.35	
Porichthys sp	0.20	4	0.22	
Pellona harroweri	0.20	4	0.22	
Prionotus punctatus	0.20	12	0.22	
Diploctrum radiale	0.20	12	0.22	
Synodus sp	0.12	12	0.13	
Penaeus brasiliensis	0.10	6	0.11	
Diploctrum bivittatum	0.08	4	0.09	
Octopus zonatus	0.08	4		
Spherooides sp	0.00	4		
Porichthys pauciradiatus	0.00	8		
Total	92.02		100.04	

PROJECT STATION:1089
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1107 Long W 6343
 start stop duration
 TIME : 13:34 14:04 30 (min) Purpose code: 3
 LOG :0706.90 0708.60 1.70 Area code : 5
 FDEPTH: 28 28 GearCond.code: 1
 DDEPTH: 28 28 Validity code: 1
 Towing dir: 125° Wire out: 150 m Speed: 34 kn*10
 Sorted: 30 Kg Total catch: 715.63 CATCH/HOUR: 1431.26

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon boschmae	748.80	56908	52.32	161
Sardinella aurita	614.40	31112	42.93	162
Loligo plei	19.20	960	1.34	
Dactylopterus volitans	19.20	96	1.34	
Acanthostracion quadricornis	14.40	40	1.01	
Decapterus punctatus	7.20	720	0.50	
Decapterus macarellus	4.80	624	0.34	
Chilomycterus antillarum	1.20	2	0.08	
Trachinotus myops	1.10	2	0.08	
Diploctrum formosum	0.96	48	0.07	
Total	1431.26		100.01	

PROJECT STATION:1090
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1108 Long W 6331
 start stop duration
 TIME : 15:10 15:40 30 (min) Purpose code: 3
 LOG :0719.30 0721.00 1.70 Area code : 5
 FDEPTH: 33 31 GearCond.code: 1
 DDEPTH: 33 31 Validity code: 1
 Towing dir: 85° Wire out: 200 m Speed: 34 kn*10
 Sorted: 32 Kg Total catch: 68.02 CATCH/HOUR: 136.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	89.20	4936	65.57	163
Pristipomoides macrophthalmus	12.36	1446	9.09	
Portunus spinicarpus	10.80	124	7.94	
Dactylopterus volitans	6.00	44	4.41	
Synodus intermedius	3.68	268	2.71	
Upeneus parvus	2.88	172	2.12	
Syacium papillosum	2.40	40	1.76	
Lagocephalus laevigatus	2.20	2	1.62	
Sphyræna guachancho	1.80	2	1.32	
Acanthostracion quadricornis	1.20	8	0.88	
Priacanthus arenatus	1.20	2	0.88	
Prionotus punctatus	0.88	56	0.65	
Haemulon boschmae	0.60	72	0.44	
Echenis naucrates	0.20	4	0.15	
Chilomycterus antillarum	0.16	4	0.12	
Diploctrum bivittatum	0.12	8	0.09	
Diploctrum formosum	0.12	4	0.09	
Rhomboplites aurorubens	0.08	16	0.06	
Trachurus lathami	0.08	16	0.06	
Dothys ocellatus	0.04	8	0.03	
Symphurus diomedianus	0.04	4	0.03	
Spherooides dorsalis	0.00	8		
Bellator sp	0.00	4		
Total	136.04		100.02	

PROJECT STATION:1091
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1107 Long W 6320
 start stop duration
 TIME : 16:47 17:17 30 (min) Purpose code: 3
 LOG :0732.20 0733.10 1.60 Area code : 5
 FDEPTH: 33 31 GearCond.code: 1
 BDEPTH: 33 31 Validity code: 1
 Towing dir: 92° Wire out: 200 m Speed: 32 kn*10

Sorted: 4 Kg Total catch: 56.53 CATCH/HOUR: 113.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Saurida sp	12.00	4800	10.61	
Popilius paru	11.20	24	9.91	
Trichurus leopeturus	10.20	8	9.02	
Lutjanus purpureus	8.40	38	7.43	164
Gymnothorax ocellatus	8.00	32	7.00	
Sphyrna guachancho	6.60	26	5.84	
Umbra coroides	6.50	12	5.75	
Synodus foetens	6.40	62	5.66	
Cynoscion similis	6.40	4	5.66	
Syacium microrum	4.80	240	4.25	
Diplacium radiale	4.60	256	4.07	
Sphyrna tiburo	4.20	2	3.71	
Heteropogonias furnieri	4.00	6	3.54	
Loligo plei	3.20	520	2.83	
Diplacium bivittatum	3.20	32	2.83	
Scorpaenopsis cavalla	3.00	4	2.65	
Prionotus punctatus	2.10	10	1.86	
Synodus poeyi	1.20	96	1.06	
Pristipomoides macrophthalmus	1.20	432	1.06	
Chloroscombus chrysurus	1.20	60	1.06	
Acanthostracion quadricornis	0.80	4	0.71	
Lutjanus synagris	0.70	8	0.62	
Ogcocephalus nasutus	0.64	4	0.57	
Serranus atrobranchius	0.60	44	0.53	
Selene setapinnis	0.40	4	0.35	
Dactylopterus volitans	0.40	2	0.35	
Orthopristis ruber	0.40	2	0.35	
Anchoa filifera	0.24	240	0.21	
Pennaeus brasiliensis	0.20	2	0.18	
Lepididium profundorum	0.20	2	0.18	
Porichthys pauciradiatus	0.08	4	0.07	
Total	113.06		100.00	

PROJECT STATION:1094
 DATE:24/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 6354
 start stop duration
 TIME : 05:58 06:58 60 (min) Purpose code: 3
 LOG :0839.70 0842.50 2.80 Area code : 5
 FDEPTH: 300 295 GearCond.code: 1
 BDEPTH: 300 295 Validity code: 1
 Towing dir: 250° Wire out:1000 m Speed: 28 kn*10

Sorted: 14 Kg Total catch: 243.33 CATCH/HOUR: 243.33

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	54.40	2642	22.36	
Pennaeopsis serrata	32.00		13.15	
Synagrops helius	32.00	816	13.15	
Polydora lowei	23.20	416	9.53	
Coelorrhinus caribbaeus	16.80	880	6.90	
Epinephelus niveatus	14.00	1	5.75	
Ariomma bondi	12.80	336	5.26	
Lophiodon reticulatus	9.70	2	3.99	
Etmopterus schultzei	8.00	352	3.29	
Parasudis trunculatus	6.00	64	2.47	
Argentina sp.	5.60	272	2.30	
Neopinnula orientalis	4.80	24	1.97	
SCIARNIDAE	4.80	16	1.97	
Pontinus longispinis	2.40	24	0.99	
Metanephrops binghami	2.40	65	0.99	196
Squalus cubensis	2.30	3	0.95	
Mustelus canis	2.20	4	0.90	
Decapterus tabl	2.00	16	0.82	
Nealotus tripes	1.60	16	0.66	
Zeniopsis ocellata	1.60	2	0.66	
Illex illecebrosus	1.10	6	0.45	
Chlorophthalmus sp.	0.80	32	0.33	
MORIIDAE	0.80	80	0.33	
Peristodion gracile	0.80	112	0.33	
Morluccius albidus	0.50	1	0.21	
Zenion sp.	0.32	128	0.13	
Solenocera acuminata	0.25	9	0.10	
Munida forceps	0.20	2	0.08	
Hoplostethus occidentalis	0.00	32		
Cyttus roseus	0.00	32		
Total	243.17		99.94	

PROJECT STATION:1092
 DATE:23/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1138 Long W 6332
 start stop duration
 TIME : 23:45 00:45 60 (min) Purpose code: 3
 LOG :0799.30 0801.30 2.00 Area code : 5
 FDEPTH: 420 475 GearCond.code: 1
 BDEPTH: 420 475 Validity code: 1
 Towing dir: 270° Wire out:1350 m Speed: 20 kn*10

Sorted: 15 Kg Total catch: 118.79 CATCH/HOUR: 110.79

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Glyptocheilichthys neglecta	27.30	9418	22.98	
Steindachneria argenta	12.60	567	10.61	
Nephropsis aculeata	10.50	660	8.84	
Centropomus granulatus	8.50	1	7.16	
Plecticus robustus	7.70	200	6.48	165
Bathynomus giganteus	4.20	8	3.54	
Yarrallia blackfordi	3.50	133	2.95	
Aristaeomorpha foliacea	3.50	140	2.95	
Neoscomelus macrolepidotus	3.15	203	2.65	
Stenomastix sculpta	3.15	49	2.65	
Rossia antillensis	2.45	7	2.06	
Illex illecebrosus	2.42	10	2.04	
Parasudis trunculatus	2.24	49	1.89	
Acanthephyra armata	2.24	364	1.89	
Bathyluopa sp	2.10	56	1.77	
Bathygadus melanobranchius	2.10	49	1.77	
Physiculus fulvus	2.10	35	1.77	
Nesunia sulia	2.10	56	1.77	
Raja tsevani	2.10	1	1.77	
Dibranchius atlanticus	1.75	56	1.47	
Ariomma bondi	1.75	49	1.47	
Polymesia corythaeola	1.40	42	1.18	
Bembrops antirostris	1.40	21	1.18	
Benthodesmus tenuis	1.40	49	1.18	
Polydora lowei	1.40	14	1.18	
Pholidoteuchis adami	1.10	3	0.93	
Plesionika polycanthonensis	1.05	154	0.88	
Hydrolagus alberti	0.96	2	0.76	
Symphurus diomedianus	0.70	28	0.59	
Geryon quinquegens	0.70	1	0.59	
Merluccius albidus	0.51	1	0.43	
Scomnodon obscurus	0.50	4	0.42	
Nealotus tripes	0.14	14	0.12	
Olophoria gracilirostris	0.14	49	0.12	
Total	118.79		100.04	

PROJECT STATION:1095
 DATE:24/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1130 Long W 6354
 start stop duration
 TIME : 08:03 08:33 30 (min) Purpose code: 3
 LOG :0850.30 0851.60 1.30 Area code : 5
 FDEPTH: 70 77 GearCond.code: 1
 BDEPTH: 70 77 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 28 kn*10

Sorted: 25 Kg Total catch: 102.98 CATCH/HOUR: 205.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	117.60	4328	57.10	170
Mustelus canis	16.00	6	7.77	
Mustelus higmani	12.80	20	6.21	
Loligo plei	12.60	1278	6.12	171
Upeneus parvus	6.00	108	2.91	
Prionotus punctatus	5.00	12	2.43	
Loligo pealei	4.80	108	2.33	
Paralichthys tropicus	4.00	4	1.94	
Serranus atrobranchius	3.30	138	1.60	
Synodus poeyi	2.64	40	1.28	
Trichurus leopeturus	2.30	2	1.12	
Ancylometta quadricollata	2.20	8	1.07	
Epinephelus flavolimbatus	2.20	4	1.07	
Priacanthus arenatus	2.20	6	1.07	
Trachurus lathami	2.10	48	1.02	
Scorpaena brasiliensis	2.00	6	0.97	
Fistularia patina	1.90	4	0.92	
Serranus dewegeri	1.80	4	0.87	
Prionotus stearnsi	1.20	54	0.58	
Sphoeroides dorsalis	0.84	18	0.41	
Prionotus sp	0.72	24	0.35	
Scorpaena agassizi	0.40	4	0.19	
Caulolatilus intermedius	0.40	2	0.19	
Pennaeus brasiliensis	0.30	12	0.15	
PARALEPIDIDAE	0.18	12	0.09	
Ancylometta quadricollata	0.18	12	0.09	
Illex illecebrosus	0.18	2	0.09	
Ogcocephalus nasutus	0.12	12	0.06	
Total	205.96		100.00	

PROJECT STATION:1096
 DATE:24/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1125 Long W 6353
 start stop duration
 TIME : 09:40 10:10 30 (min) Purpose code: 3
 LOG :0863.00 0863.30 1.50 Area code : 5
 FDEPTH: 40 50 GearCond.code: 1
 BDEPTH: 40 50 Validity code: 1
 Towing dir: 270° Wire out: 250 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 98.65 CATCH/HOUR: 197.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	68.50	7908	34.72	172
Pristipomoides macrophthalmus	53.00	4748	26.86	
Priacanthus arenatus	15.80	36	8.01	
Mustelus higmani	14.00	18	7.10	
Rhomboplites aurorubens	14.00	26	7.10	
Synodus poeyi	6.00	316	3.04	
Synodus foetens	6.00	20	3.04	
Paralichthys tropicus	3.40	4	1.72	
Syacium microrum	2.50	170	1.27	
Upeneus parvus	2.50	166	1.27	
Serranus atrobranchius	2.20	230	1.12	
Ancylometta quadricollata	2.00	6	1.01	
Selene setapinnis	1.80	2	0.91	
Salar crumenophthalmus	1.70	114	0.86	
Saurida caribbaea	1.00	210	0.51	
Caulolatilus intermedius	1.00	2	0.51	
Epinephelus flavolimbatus	1.00	8	0.51	
Lutjanus purpureus	0.80	4	0.41	
Porichthys pauciradiatus	0.10	16	0.05	
Prionotus stearnsi	0.00	10		
Narcino sp.	0.00	10		
Ariomma sp	0.00	10		
Total	197.30		100.02	

PROJECT STATION:1093
 DATE:24/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1138 Long W 6340
 start stop duration
 TIME : 02:54 03:35 41 (min) Purpose code: 3
 LOG :0817.10 0818.90 1.80 Area code : 5
 FDEPTH: 315 316 GearCond.code: 1
 BDEPTH: 315 316 Validity code: 1
 Towing dir: 270° Wire out:1000 m Speed: 30 kn*10

Sorted: 16 Kg Total catch: 200.89 CATCH/HOUR: 293.99

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	157.32	11418	53.51	
Polydora lowei	32.70	761	11.15	
Etmopterus pusillus	15.73	503	5.35	
Metanephrops binghami	12.29	293	4.18	167
Parapenaeus longirostris	11.71	1850	3.98	
Solenocera acuminata	11.71	457	3.98	166
Bembrops antirostris	9.44	63	3.21	
Plecticus robustus	7.02	281	2.39	168
Nesunia cyrano	6.92	503	2.35	
Lophodes reticulatus	6.15	3	2.09	
Munida forceps	5.85	70	1.99	
Argentina sp.	3.78	189	1.29	
Peristodion gracile	3.15	126	1.07	
OPHIDIIDAE	1.89	189	0.64	
Gymnothorax conspersus	1.61	1	0.55	
Nephropsis aculeata	1.29	94	0.44	
Portunus spinicarpus	1.29	105	0.44	
Pennaeopsis serrata	1.05	152	0.36	
Dibranchius atlanticus	0.63	63	0.21	
Pontinus longispinis	0.63	4	0.21	
Plesionika edwardsii	0.59	94	0.20	
Rossia antillensis	0.47	12	0.16	
Olophoria gracilirostris	0.47	107	0.16	
Pasiphaea morriani	0.12	12	0.04	
Acanthocarpus alexandri	0.12	12	0.04	
Total	294.01		99.99	

PROJECT STATION:1097
 DATE:24/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1119 Long W 6346
 TIME : 11:22 11:52 30 (min) Purpose code: 3
 LOG :0874.50 8875.80 1.30 Area code : 5
 FDEPTH: 31 31 GearCond.code: 1
 BDEPTH: 31 31 Validity code: 1
 Towing dir: 250° Wire out: 150 m Speed: 26 kn*10
 Sorted: 25 Kg Total catch: 134.30 CATCH/HOUR: 268.60

PROJECT STATION:1100
 DATE:24/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1115 Long W 6417
 TIME : 17:55 18:25 30 (min) Purpose code: 3
 LOG :0926.50 8927.80 1.30 Area code : 5
 FDEPTH: 54 43 GearCond.code: 1
 BDEPTH: 54 43 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 26 kn*10
 Sorted: 26 Kg Total catch: 614.16 CATCH/HOUR: 1228.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dactylopterus volitans	210.00	920	78.18	
Loligo plei	31.00	2976	11.54	173
Dasyatis americana	17.00	2	6.33	
Synodus sp	3.70	660	1.30	
Upeneus parvus	2.20	120	0.82	
Syacium papillosum	1.30	10	0.48	
Eucinostomus argenteus	1.20	10	0.45	
Rhinobatos percellens	1.00	2	0.15	
Acanthostracion quadricornis	0.40	10	0.11	
Syacium sp.	0.30	20	0.11	
Trachinocephalus myops	0.20	10	0.07	
Bothus ocellatus	0.10	10	0.04	
Diplectrum radiale	0.10	10	0.04	
Selar crumenophthalmus	0.10	10	0.04	
Total	268.60		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon boschmae	312.00	21090	25.40	
Mycteroperca cidi	230.80	16	10.79	
Lutjanus analis	166.40	28	13.55	175
Ocyurus chrysurus	71.00	60	5.70	
Pagrus pagrus	57.00	106	4.64	176
Mulloidichthys martinicus	45.60	360	3.71	
Sardinella aurita	43.20	792	3.52	
Haemulon aurolineatum	42.00	336	3.42	
Paranthias furcifer	36.00	216	2.93	
Haemulon steindachneri	30.00	192	2.44	
Lutjanus griseus	19.20	2	1.56	
Upeneus parvus	16.80	720	1.37	
Mycteroperca interstitialis	16.00	4	1.30	
Astragopus sp.	14.40	1440	1.17	
Pistularia putimba	12.40	18	1.01	
Cyclosetta fimbriata	12.00	24	0.90	
Holocentrus adacensiois	10.80	24	0.80	
Dactylopterus volitans	9.60	24	0.78	
Pomatomus saltatrix	8.40	24	0.66	
Myxipristis jacobus	6.00	96	0.49	
Pristipomoides macrophthalmus	5.52	384	0.45	
Panulirus argus	5.20	2	0.42	
Syacium sp.	4.80	96	0.39	
Priacanthus arenatus	4.80	24	0.39	
Mycteroperca rubra	4.80	2	0.39	
Decapterus sp	4.08	264	0.33	
Diplectrum radiale	3.60	120	0.29	
Serranus phoebe	3.60	336	0.29	
Inermia vittata	3.60	72	0.29	
Acanthostracion quadricornis	3.60	2	0.29	
Ophichthus ophis	2.40	2	0.20	
Loligo plei	2.40	72	0.20	
Adicoryx bullisi	2.40	72	0.20	
Pseudupeneus maculatus	2.40	24	0.20	
Sphyræna plicatilla	2.40	24	0.20	
Synodus intermedius	2.20	2	0.18	
Lutjanus buccanella	1.60	6	0.13	
Pistularia tabacaria	1.60	2	0.13	
Aulostomus maculatus	1.44	24	0.12	
Epistelus incoelatus	1.44	48	0.12	
Chnetodon ocellatus	1.20	48	0.10	
Rhomboplites aurorubens	1.20	2	0.08	
Umbra coroides	1.00	2	0.08	
Selar crumenophthalmus	0.96	24	0.08	
Synodus poeyi	0.24	144	0.02	
Haemulon striatum	0.24	48	0.02	
Total	1228.32		100.00	

PROJECT STATION:1098
 DATE:24/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1113 Long W 6401
 TIME : 13:34 14:04 30 (min) Purpose code: 3
 LOG :0892.70 8893.80 1.10 Area code : 5
 FDEPTH: 20 30 GearCond.code: 1
 BDEPTH: 20 30 Validity code: 1
 Towing dir: 276° Wire out: 150 m Speed: 22 kn*10
 Sorted: 15 Kg Total catch: 74.99 CATCH/HOUR: 149.98

PROJECT STATION:1101
 DATE:24/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1131 Long W 6412
 TIME : 21:21 22:21 60 (min) Purpose code: 3
 LOG :0954.00 8956.50 2.50 Area code : 5
 FDEPTH: 397 406 GearCond.code: 1
 BDEPTH: 397 406 Validity code: 1
 Towing dir: 230° Wire out:1150 m Speed: 25 kn*10
 Sorted: 12 Kg Total catch: 138.97 CATCH/HOUR: 138.97

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichurus lepturus	101.40	150	67.61	
Loligo plei	15.60	1164	10.40	
Gymnothorax conopersus	8.00	2	5.33	
Upeneus parvus	6.40	48	4.27	
Acanthostracion quadricornis	3.00	20	2.00	
Diplectrum radiale	2.60	168	1.73	
Dactylopterus volitans	2.24	16	1.49	
Gymnothorax ocellatus	2.00	8	1.33	
Haemulon boschmae	1.80	322	1.20	
Fortunus spinimanus	1.44	10	0.93	
Rhinobatos percellens	1.30	4	0.87	
Syacium sp.	1.00	36	0.67	
Prionotus punctatus	0.80	60	0.53	
Priacanthus arenatus	0.60	12	0.40	
Syacium papillosum	0.60	6	0.40	
Scorpaena brasiliensis	0.40	4	0.27	
Diplectrum formosum	0.30	2	0.20	
Cyclosetta fimbriata	0.24	2	0.16	
Sphaeroides dorsalis	0.20	12	0.13	
Ancylometta quadricollata	0.10	2	0.07	
Serranus phoebe	0.00	4		
Total	149.98		99.99	

PROJECT STATION:1099
 DATE:24/11/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1109 Long W 6413
 TIME : 16:35 17:05 30 (min) Purpose code: 3
 LOG :0910.30 8919.60 1.30 Area code : 5
 FDEPTH: 33 34 GearCond.code: 1
 BDEPTH: 33 34 Validity code: 1
 Towing dir: 270° Wire out: 200 m Speed: 26 kn*10
 Sorted: 7 Kg Total catch: 71.00 CATCH/HOUR: 142.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	90.00	3667	64.76	
Bembrops sp	10.00	130	7.20	
Plecticus robustus	7.70	157	5.54	177
Physiculus fulvus	7.00	90	5.04	
Nexunia sulia	5.00	120	3.60	
Etmopterus sp	4.00	110	2.88	
Squatina dumeril	3.00	1	2.16	
Plesionika edwardsii	2.40	127	1.73	
Scylliorhinus boa	2.00	4	1.44	
Malacocephalus occidentalis	1.70	40	1.22	
Merluccius albidus	1.70	2	1.22	
Dibranchius atlanticus	1.00	20	0.72	
Hydrologus alberti	0.90	1	0.65	
Synagrops bellus	0.70	10	0.50	
MORIDAE	0.50	10	0.36	
Polymixia lowei	0.50	10	0.36	
Symphurus diomedianus	0.30	30	0.22	
Illex coandotti	0.20	1	0.14	
RAJIDAE	0.17	1	0.12	
Munida longipes	0.10	10	0.07	
Aristeus viridens	0.10	2	0.07	
Diplophos maderensis	0.00	10		
Total	138.97		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Loligo plei	49.60	3880	34.93	174
Synodus poeyi	28.80	6336	20.28	
Pristipomoides macrophthalmus	27.20	9728	19.15	
Dactylopterus volitans	12.80	42	9.01	
Prionotus punctatus	3.66	36	2.58	
Ochtopristis ruber	3.10	8	2.18	
Rhinobatos percellens	2.80	6	1.97	
Selar crumenophthalmus	1.44	48	1.01	
Priacanthus arenatus	1.28	144	0.90	
Paralichthys tropicus	1.16	4	0.82	
Acanthostracion quadricornis	1.00	16	0.70	
Octopus sp	1.00	6	0.70	
Diplectrum radiale	0.96	112	0.68	
Serranus atrobranchius	0.96	96	0.68	
Upeneus parvus	0.96	304	0.68	
Syacium sp.	0.80	80	0.56	
Nalistas capricus	0.62	2	0.44	
Sphyræna quachancho	0.60	4	0.42	
Syacium papillosum	0.58	2	0.41	
Scorpaena brasiliensis	0.50	2	0.41	
Peneus brasiliensis	0.54	4	0.38	
Diplectrum formosum	0.52	2	0.37	
Priacanthus arenatus	0.30	2	0.21	
Chilocyttarus antillarum	0.30	2	0.21	
Ancylometta quadricollata	0.22	4	0.15	
Pistularia tabacaria	0.20	4	0.14	
Thalassophryne maculosa	0.02	2	0.01	
Trachurus lathami	0.00	16		
Lutjanus purpuraceus	0.00	16		
Total	142.00		99.98	

PROJECT STATION:1102
 DATE:24/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1129 Long W 6118
 start stop duration Purpose code: 3
 TIME : 23:38 00:38 60 (min) Area code : 5
 LOG :0960.40 0963.40 3.00 GearCond.code: 1
 FDEPTH: 510 502 Validity code: 1
 BDEPTH: 510 502
 Towing dir: 230° Wire out:1400 m Speed: 30 kn*10

Sorted: 25 Kg Total catch: 84.38 CATCH/HOUR: 84.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	34.05	726	40.35	
Physiculus fulvus	10.50	162	12.44	
Nesunia mullin	7.50	150	8.89	
Helicolenus dactylopterus	4.20	6	4.98	
Bathynomus giganteus	4.20	6	4.98	
PORTUNIDAE	3.30	3	3.91	
Merluccius albidus	2.46	4	2.92	
Illex coindetti	2.10	9	2.49	
Raja sp	1.90	1	2.25	
Hymenocephalus italicus	1.00	160	2.13	
Hydrolepis albarti	1.77	3	2.10	
Aristeus viridens	1.75	69	2.07	
Geryon quinquefens	1.50	2	1.78	
Malacocephalus occidentalis	1.47	12	1.74	
Cyrtopsis roseus	0.90	24	1.07	
Aristaeomorpha foliacea	0.00	30	0.95	
Plocticus robustus	0.65	7	0.77	
Nesunia cyrano	0.57	18	0.68	
Rossia antillensis	0.50	2	0.59	
Penaeopsis serrata	0.45	39	0.53	
Octopus Joubini	0.36	9	0.43	
Polymixia lowei	0.30	6	0.36	
Peristedion gracile	0.30	6	0.36	
Synagrops sp.	0.24	6	0.28	
Nathychirops sp	0.15	3	0.18	
Dibranchius atlanticus	0.15	15	0.18	
Neosopelus macrolepidotus	0.12	6	0.14	
Polysia coryphaea	0.12	6	0.14	
Benthosaurus tenuis	0.09	3	0.09	
Monoclitopus agassizii	0.06	3	0.07	
Deaprops sp.	0.06	3	0.07	
Glyphorhynchus neglecta	0.03	18	0.04	
Olophorus gracillirostris	0.03	18	0.04	
Nephropsis aculeata	0.00	3		
Total	84.38		100.02	

PROJECT STATION:1105
 DATE:25/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1104 Long W 6424
 start stop duration Purpose code: 3
 TIME : 10:49 11:19 30 (min) Area code : 5
 LOG :9031.00 9033.20 1.40 GearCond.code: 1
 FDEPTH: 24 24 Validity code: 1
 BDEPTH: 24 24
 Towing dir: 200° Wire out: 150 m Speed: 30 kn*10

Sorted: 30 Kg Total catch: 169.25 CATCH/HOUR: 338.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Eucinostomus argenteus	260.00	11304	76.81	
Dasyatis guttata	15.40	2	4.55	
Dactylopterus volitans	14.00	40	4.14	
Acanthostracion quadricornis	6.00	30	1.77	
Synodus poeyi	4.50	340	1.33	
Chilomyoterus antillarum	4.50	10	1.33	
Dasyatis americana	4.00	2	1.18	
Lagocephalus laevigatus	3.00	4	1.12	
Alcoctis ciliaris	3.00	2	1.06	
Aluterus punctatus	3.50	20	1.03	
Syacium papillosum	3.50	20	1.03	
Loligo plei	3.00	370	0.89	
Paralichthys tropicus	2.80	2	0.83	
Aluterus monoceros	2.40	2	0.71	
Scorpaena plumieri	2.40	2	0.71	
Rhinobatos percellens	1.00	2	0.53	
Pristipomoides macrophthalmaus	1.10	330	0.32	
Comodon nobilis	0.90	2	0.27	
Aluterus heudelotii	0.70	10	0.21	
Diplectrum bivittatum	0.60	50	0.18	
Upeneus parvus	0.00	10		
Lutjanus analis	0.00	10		
Lutjanus purpureus	0.00	20		
Syacium sp.	0.00	10		
Total	338.50		100.00	

PROJECT STATION:1106
 DATE:25/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6429
 start stop duration Purpose code: 3
 TIME : 14:07 14:37 30 (min) Area code : 5
 LOG :9056.30 9057.60 1.30 GearCond.code: 1
 FDEPTH: 80 83 Validity code: 1
 BDEPTH: 80 83
 Towing dir: 300° Wire out: 450 m Speed: 26 kn*10

Sorted: 28 Kg Total catch: 528.50 CATCH/HOUR: 1057.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmaus	520.20	11822	49.21	178
Priacanthus aeneatus	190.80	792	18.05	
Upeneus parvus	75.60	2484	7.15	179
Synodus poeyi	48.60	208	4.60	
Haemulon steindachneri	34.20	216	2.24	
Trachurus lathami	27.00	360	2.55	
Mullus auratus	25.20	108	2.38	
Lagocephalus laevigatus	20.90	18	1.98	
Synodus foetens	16.20	216	1.53	
Saurida brasiliensis	16.20	72	1.53	
Rucinostomus argenteus	14.40	100	1.36	
Paralichthys tropicus	12.00	18	1.14	
Caenolatilus cyanops	10.80	36	1.02	
Syacium sp	9.00	36	0.85	
Orthopristis ruber	9.00	36	0.85	
Aluterus monoceros	6.30	6	0.60	
Pistularia petimba	5.20	8	0.49	
Prionotus roseus	4.32	108	0.41	
Syacium papillosum	3.00	20	0.28	
Cyclopssetta chittendeni	2.00	4	0.26	
Sphyræna picudilla	2.40	2	0.23	
Fareques sp	1.80	6	0.17	
Serranus atrorhynchus	0.72	36	0.07	
Prionotus punctatus	0.36	36	0.03	
Serranus dwagori	0.00			
Total	1057.00		99.98	

PROJECT STATION:1107
 DATE:25/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1057 Long W 6412
 start stop duration Purpose code: 3
 TIME : 17:39 18:09 30 (min) Area code : 5
 LOG :8009.50 8090.90 1.40 GearCond.code: 1
 FDEPTH: 34 35 Validity code: 1
 BDEPTH: 34 35
 Towing dir: 305° Wire out: 200 m Speed: 20 kn*10

Sorted: 31 Kg Total catch: 79.62 CATCH/HOUR: 159.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Synodus foetens	38.00	628	23.86	
Sphyræna guachancho	16.00	40	10.05	
Diplectrum bivittatum	14.00	586	8.79	
Lagocephalus laevigatus	13.40	8	8.41	
Loligo plei	8.80	1144	5.53	180
Sphyræna picudilla	8.00	160	5.02	
Synodus poeyi	7.60	856	4.77	
Penaeus notialis	6.40	864	4.02	181
Trachurus lathami	5.60	104	3.52	
Trachinotus carolinus	5.60	4	3.52	
Eucinostomus gula	5.40	296	3.39	
Pistularia petimba	5.00	6	3.14	
Scorpaena brasiliensis	4.00	12	2.51	
Albula vulpess	3.80	2	2.39	
Saurida caribbaea	2.80	444	1.76	
Porichthys pauciradiatus	2.40	448	1.51	
Selene setapinnis	2.20	4	1.38	
Penaeus brasiliensis	2.00	104	1.26	182
Trichurus lepturus	2.00	2	1.26	
Diplectrum formosum	1.40	12	0.88	
Prionotus punctatus	1.20	20	0.75	
Syacium sp.	1.04	116	0.65	
Orthopristis ruber	1.00	4	0.63	
Bothus sp	0.40	16	0.25	
Upeneus parvus	0.40	20	0.25	
Squilla empusa	0.28	4	0.18	
Symphurus diomedianus	0.24	4	0.15	
Lagocephalus laevigatus	0.20	8	0.13	
Dibranchius sp	0.08	8	0.05	
Penaeus aztecus	0.00	2		
Total	159.24		100.01	

PROJECT STATION:1104
 DATE:25/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1110 Long W 6431
 start stop duration Purpose code: 3
 TIME : 00:51 09:21 30 (min) Area code : 5
 LOG :9017.20 9018.60 1.40 GearCond.code: 1
 FDEPTH: 42 49 Validity code: 1
 BDEPTH: 42 49
 Towing dir: 290° Wire out: 250 m Speed: 28 kn*10

Sorted: 27 Kg Total catch: 102.43 CATCH/HOUR: 204.86

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmaus	43.80	1776	21.38	
Dactylopterus volitans	39.00	126	19.04	
Upeneus parvus	22.20	956	10.84	
Eucinostomus argenteus	14.40	378	7.03	
Chilomyoterus antillarum	10.20	24	4.98	
Mustelus canis	10.00	12	4.88	
Synodus poeyi	8.70	570	4.25	
Diplectrum bivittatum	5.70	144	2.78	
Lagocephalus laevigatus	5.70	6	2.78	
Aluterus monoceros	5.60	4	2.73	
Priacanthus aeneatus	5.00	10	2.44	
Rhinobatos percellens	4.40	8	2.15	
Loligo plei	4.20	84	2.05	
Selene setapinnis	4.20	12	2.05	
Bothus lunatus	3.00	24	1.46	
Syacium sp.	3.00	162	1.46	
Paralichthys tropicus	2.60	2	1.27	
Aluterus heudelotii	2.60	8	1.27	
Prionotus punctatus	2.40	138	1.17	
Cyclopssetta fimbriata	1.80	4	0.88	
Acanthostracion quadricornis	1.60	4	0.78	
Sphoeroides dorsalis	1.20	18	0.59	
Pistularia petimba	1.10	10	0.54	
Scomber japonicus	0.60	6	0.29	
Octopus vulgaris	0.60	2	0.29	
Rhomboplites aurorubens	0.36	66	0.18	
Dibranchius atlanticus	0.30	36	0.15	
Scorpaena calcarata	0.30	12	0.15	
Halieutichthys aculeatus	0.18	12	0.09	
Scorpaena isthmensis	0.12	6	0.06	
Serranus phoebe	0.00	12		
Total	204.86		100.01	

PROJECT STATION:1100
 DATE:25/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1043 Long W 6400
 TIME : 21:14 start stop duration Purpose code: 1
 LOG :9117.80 9119.20 1.40 Area code : 5
 FDEPTH: 7 11 GearCond.code: 1
 BDEPTH: 27 28 Validity code: 1
 Towing dir: 205° Wire out: 50 m Speed: 28 kn*10
 Sorted: 10 Kg Total catch: 175.90 CATCH/HOUR: 351.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Anchoa lamprotaenia	288.00 120534	81.86	186
Cetengraulis adentulus	30.00 3800	0.53	
Sardinella aurita	15.00 2684	4.26	184
Sphyrna guachancho	12.80 56	3.64	183
Opisthonema oglinum	5.00 1110	1.42	105
Chirocentrodon bleekeriensis	0.80 120	0.23	
Trachurus lathami	0.10 10	0.03	
Harengula jaguana	0.10 50	0.03	
Lolliguncula brevis	0.00 20		
Loligo pealei	0.00 10		
Loligo plei	0.00 20		
Total	351.00	100.00	

PROJECT STATION:1109
 DATE:26/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1031 Long W 6415
 TIME : 04:11 start stop duration Purpose code: 1
 LOG :9175.80 9177.30 1.50 Area code : 5
 FDEPTH: 8 10 GearCond.code: 1
 BDEPTH: 47 58 Validity code: 1
 Towing dir: 320° Wire out: 50 m Speed: 30 kn*10
 Sorted: 10 Kg Total catch: 10.98 CATCH/HOUR: 21.96

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	20.80 5110	94.72	187
Scomber japonicus	0.40 2	1.82	
Selar crumenophthalmus	0.40 8	1.82	
Hemiramphus brasiliensis	0.30 4	1.37	
Harengula jaguana	0.06 2	0.27	
Total	21.96	100.00	

PROJECT STATION:1110
 DATE:26/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1031 Long W 6412
 TIME : 06:16 start stop duration Purpose code: 1
 LOG :9188.90 9189.90 1.00 Area code : 5
 FDEPTH: 10 12 GearCond.code: 1
 BDEPTH: 33 27 Validity code: 1
 Towing dir: 212° Wire out: 75 m Speed: 30 kn*10
 Sorted: Kg Total catch: 0.10 CATCH/HOUR: 0.29

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Decapterus punctatus	0.29 6	100.00	
Total	0.29	100.00	

PROJECT STATION:1111
 DATE:26/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1030 Long W 6400
 TIME : 20:10 start stop duration Purpose code: 1
 LOG :9240.40 9241.60 1.20 Area code : 5
 FDEPTH: 13 19 GearCond.code: 1
 BDEPTH: 60 66 Validity code: 1
 Towing dir: 115° Wire out: 75 m Speed: 35 kn*10
 Sorted: 2 Kg Total catch: 45.40 CATCH/HOUR: 136.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardinella aurita	74.40 8184	54.63	188
Engraulis eurystole	46.80 4632	34.36	189
Trichurus lopturus	15.00 15	11.01	
Total	136.20	100.00	

PROJECT STATION:1112
 DATE:26/11/88 GEAR TYPE: PT No:2 POSITION:Lat N 1020 Long W 6414
 TIME : 23:50 start stop duration Purpose code: 1
 LOG :9273.90 9275.20 1.30 Area code : 5
 FDEPTH: 15 15 GearCond.code: 1
 BDEPTH: 404 450 Validity code: 1
 Towing dir: 40° Wire out: 75 m Speed: 26 kn*10
 Sorted: 7 Kg Total catch: 7.25 CATCH/HOUR: 14.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Selar crumenophthalmus	7.50 230	51.72	190
Sardinella aurita	5.00 230	34.48	191
Harengula jaguana	2.00 96	13.79	192
Neopinnula orientalis	0.00 2		
Total	14.50	99.99	

PROJECT STATION:1113
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6500
 TIME : 09:59 start stop duration Purpose code: 3
 LOG :9372.10 9373.40 1.30 Area code : 5
 FDEPTH: 122 103 GearCond.code: 1
 BDEPTH: 122 103 Validity code: 1
 Towing dir: 270° Wire out: 550 m Speed: 26 kn*10
 Sorted: 57 Kg Total catch: 1542.16 CATCH/HOUR: 3084.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trachurus lathami	2107.00 34992	70.91	193
Scomber japonicus	243.00 2808	7.88	196
Pagrus pagrus	162.00 378	5.25	
Mullus auratus	129.60 1080	4.20	
Sardinella aurita	118.00 2376	3.85	195
Priacanthus arenatus	102.60 1674	3.33	194
Saurida brasiliensis	67.50 216	2.19	
Upeneus parvus	20.80 810	0.93	
Pristipomoides macrophthalmus	27.00 378	0.88	
Selar crumenophthalmus	0.64 216	0.28	
Caulolatilus cyanops	0.10 54	0.26	
Paralichthys tropicus	2.00 2	0.06	
Total	3085.04	100.02	

PROJECT STATION:1114
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1053 Long W 6507
 TIME : 11:30 start stop duration Purpose code: 3
 LOG :9380.30 9381.10 0.80 Area code : 5
 FDEPTH: 94 90 GearCond.code: 1
 BDEPTH: 94 90 Validity code: 1
 Towing dir: 260° Wire out: 450 m Speed: 30 kn*10
 Sorted: 71 Kg Total catch: 74.01 CATCH/HOUR: 261.21

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Priacanthus arenatus	122.82 536	47.02	
Lutjanus purpuraceus	28.94 46	11.08	
Pristipomoides macrophthalmus	28.41 254	10.08	
Lutjanus vivanus	22.94 21	8.70	
Rhompholites aurorubens	19.16 106	7.34	197
Synodus intermedius	12.21 155	4.67	
Paralichthys tropicus	6.53 11	2.50	
Serranus phoebe	2.54 21	0.97	
Prionotus punctatus	2.47 14	0.95	
Upeneus parvus	2.33 39	0.89	
Calamus pinnatula	2.19 4	0.84	
Prionotus robustus	2.19 46	0.74	
Serranus dewegeri	1.94 4	0.74	
Trachurus lathami	1.76 14	0.67	
Sphaeroides dorsalis	1.76 18	0.67	
Raja corvigoni	1.41 4	0.54	
Caulolatilus cyanops	0.88 4	0.34	
Scorpaena agassizi	0.71 11	0.27	
Trinectes inscriptus	0.00 11		
Chromis sp.	0.00 4		
Holanthias martinicensis	0.00 7		
Equetus lanceolatus	0.00 4		
Total	261.19	99.99	

PROJECT STATION:1115
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1053 Long W 6500
 TIME : 13:00 start stop duration Purpose code: 3
 LOG :9391.60 9393.00 1.40 Area code : 5
 FDEPTH: 150 154 GearCond.code: 1
 BDEPTH: 150 154 Validity code: 1
 Towing dir: 270° Wire out: 700 m Speed: 28 kn*10
 Sorted: 28 Kg Total catch: 283.65 CATCH/HOUR: 567.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Pristipomoides macrophthalmus	242.00 3258	42.66	
Scomber japonicus	208.00 2668	36.66	198
Upeneus parvus	40.20 1340	7.09	
Selar crumenophthalmus	20.00 400	3.53	
Trachurus lathami	17.00 200	3.00	
Sardinella aurita	14.00 220	2.47	
Priacanthus arenatus	11.00 80	1.94	
Saurida brasiliensis	6.20 40	1.09	
Caulolatilus chrysopterus	3.60 6	0.63	
Paralichthys tropicus	2.70 6	0.48	
Chilomycterus antillarum	2.00 4	0.35	
Prionotus robustus	0.40 20	0.07	
Scorpaena agassizi	0.20 40	0.04	
Total	567.30	100.00	

PROJECT STATION:1116
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1101 Long W 6501
 TIME : 14:42 start stop duration Purpose code: 3
 LOG :9403.00 9404.30 1.30 Area code : 5
 FDEPTH: 79 76 GearCond.code: 1
 BDEPTH: 79 76 Validity code: 1
 Towing dir: 270° Wire out: 450 m Speed: 26 kn*10
 Sorted: 36 Kg Total catch: 36.33 CATCH/HOUR: 72.66

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	23.40 586	32.20	
Synodus intermedius	14.90 152	20.51	
Pristipomoides macrophthalmus	5.90 64	8.12	
Sphaeroides dorsalis	5.90 112	8.12	
Priacanthus arenatus	4.50 54	6.19	
Caulolatilus cyanops	3.86 20	5.31	
Trachinocephalus ayoas	2.95 22	4.07	
Scorpaena brasiliensis	1.90 14	2.61	
Bothus ocellatus	1.26 36	1.73	
Prionotus punctatus	1.10 14	1.51	
Fistularia petimba	0.90 4	1.24	
Scorpaena agassizi	0.86 12	1.10	
Aluterus bidelotii	0.80 2	1.10	
Haemulon melanurum	0.80 2	1.10	
Chilomycterus antillarum	0.60 6	0.83	
Serranus phoebe	0.60 6	0.83	
Gastropsetta frontalis	0.60 2	0.83	
Prionotus beani	0.50 4	0.69	
Syacium gunteri	0.30 2	0.41	
Loligo plei	0.30 28	0.41	
Dactylopterus volitans	0.30 2	0.41	
Chaetodon sedentarius	0.20 2	0.28	
Chromis sp.	0.20 6	0.28	
Loligo pealei	0.00 4		
Total	72.64	99.96	

PROJECT STATION:1117
 DATE:27/11/80 GEAR TYPE: BT No:1 POSITION:Lat N 1058 Long W 6511
 start stop duration
 TIME : 16:16 16:46 30 (min) Purpose code: 3
 LOG : 9413.80 9414.90 1.10 Area code : 5
 FDEPTH: 31 30 GearCond.code: 0
 BDEPTH: 31 30 Validity code: 1
 Towing dir: 300° Wire out: 200 m Speed: 22 kn*10
 Sorted: 275 Kg Total catch: 275.01 CATCH/HOUR: 550.02

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Aotobatus narinari	150.00	6	27.27	199
Calanus calanus	135.50	376	24.64	200
Acanthostracion polygonos	45.80	50	8.33	
Ocyrops chrysurus	33.00	36	6.00	
Lechnolaimus maximus	29.60	14	5.30	
Pomacanthus paru	22.20	14	4.04	
Balistes vetula	19.60	12	3.56	
Priacanthus arenatus	19.00	62	3.45	
Sparisoma 'rubia'	18.00	16	3.27	
Pseuduponeus maculatus	17.00	226	3.09	
Pomacanthus arcuatus	11.60	10	2.11	
Fistularia potii	10.00	12	1.82	
Epinephelus guttatus	7.40	10	1.35	
Myceroperca rubra	6.80	6	1.24	
Acanthurus bahianus	5.70	16	1.04	
Dactylopterus volitans	4.60	8	0.84	
Rhinocentrus triquetus	2.60	8	0.47	
Aulostomus maculatus	2.40	50	0.44	
Haemulon plumieri	2.00	4	0.36	
Synodus intermedius	1.60	6	0.29	
Myceroperca venenosa	1.60	4	0.29	
Sepioteuthis sepioidea	1.20	16	0.22	
Serranus tortugarum	0.60	4	0.11	
Chaetodon sedentarius	0.40	12	0.07	
Scarus taeniopterus	0.40	4	0.07	
Sparisoma aurofrenatum	0.40	4	0.07	
Chaetodon striatus	0.34	4	0.06	
Chaetodon capistratus	0.24	10	0.04	
Holacanthus tricolor	0.20	2	0.04	
Haemulon melanurum	0.20	6	0.04	
Canthigaster rostrata	0.02	2		
Serranus baldwini	0.02	24		
Total	550.02		100.00	

PROJECT STATION:1110
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1106 Long W 6504
 start stop duration
 TIME : 21:58 22:28 30 (min) Purpose code: 3
 LOG : 9464.30 9465.70 1.40 Area code : 5
 FDEPTH: 94 86 GearCond.code: 5
 BDEPTH: 94 86 Validity code: 1
 Towing dir: 220° Wire out: 450 m Speed: 28 kn*10
 Sorted: 29 Kg Total catch: 109.70 CATCH/HOUR: 219.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	68.00	408	30.99	202
Haemulon striatum	47.20	708	21.51	
Rhomboplites aurorubens	44.00	110	20.05	
Synodus intermedius	9.60	144	4.38	
Noospinnula orientalis	7.20	112	3.28	
Prionotus beani	5.36	40	2.44	
Apogon sp	4.80	40	2.19	
Haemulon boschmae	4.00	184	1.82	
Scorpaena agassizi	3.60	104	1.64	
Scorpaenopsis japonica	3.20	24	1.46	
Mustelus canis	3.00	6	1.37	
Pomacentrus brasiliensis	2.20	72	1.00	201
Dactylopterus volitans	2.00	8	0.91	
Upeneus parvus	1.84	64	0.84	
Astragopus sp.	1.60	240	0.73	
Promethichthys promethous	1.20	32	0.55	
Ariomma bondi	1.20	24	0.55	
Decapterus tabl	1.20	2	0.55	
Lepophtidium profundorum	1.12	128	0.51	
Caulolatilus cyanops	1.00	2	0.46	
Priacanthus arenatus	0.80	8	0.36	
Syacium microrum	0.80	8	0.36	
Adioryx bullocki	0.80	32	0.36	
Lepophtidium phoromystax	0.72	8	0.33	
MYCOPHIDAE	0.56	96	0.26	
OPHIDIIDAE	0.40	16	0.18	
Prionotus beani	0.40	8	0.18	
Trineustes inscriptus	0.40	24	0.18	
Prionotus sp	0.40	8	0.18	
Synagrops sp.	0.16	16	0.07	
Narcine brasiliensis	0.16	8	0.07	
Hoplunnis sp	0.16	8	0.07	
Thalassophryne maculosa	0.16	8	0.07	
Synagrops bellus	0.08	8	0.04	
Holanthias martinicensis	0.00	8		
Porichthys pauciradiatus	0.00	24		
Total	219.32		99.94	

PROJECT STATION:1119
 DATE:27/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1111 Long W 6505
 start stop duration
 TIME : 23:42 00:42 60 (min) Purpose code: 3
 LOG : 9474.80 9477.20 2.40 Area code : 5
 FDEPTH: 403 398 GearCond.code: 5
 BDEPTH: 403 398 Validity code: 1
 Towing dir: 270° Wire out: 1200 m Speed: 24 kn*10
 Sorted: 24 Kg Total catch: 169.59 CATCH/HOUR: 169.59

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Steindachneria argenta	58.20	2212	34.32	
Aristaeomorpha foliacea	32.40	1246	19.10	203
Centrophorus granulosus	17.50	6	10.32	
Parasudis sp	9.30	660	5.48	
Hydrolagus alberti	4.80	6	2.83	
Illex coindetti	3.90	18	2.30	
Plecticus robustus	3.60	60	2.12	
Pomacentrus serratus	3.60	576	2.12	
Parasudis truculentus	3.60	90	2.12	
Polymixis lowei	3.60	84	2.12	
Nezumia suilla	3.30	132	1.95	
Ariomma bondi	3.00	6	1.77	
Benthodesmus tenuis	3.00	30	1.77	
Polymetma corythaeola	3.00	378	1.77	
Plesionika edwardsii	2.40	132	1.42	
Promethichthys promethous	2.40	18	1.42	
Malaccocephalus occidentalis	2.40	96	1.42	
Helicolenus dactylopterus	2.10	18	1.24	
Physiculus fulvus	1.80	48	1.06	
Argentina sp.	1.50	42	0.88	
Nephropsis aculeata	1.20	108	0.71	
Zenion sp.	1.20	90	0.71	
Bathynomus giganteus	0.65	1	0.38	
Bembrops anastirostris	0.60	12	0.35	
Cyrtopsia rotundus	0.30	30	0.18	
Munida longipes	0.18	156	0.11	
Bembrops sp	0.06	12	0.04	
Total	169.59		100.01	

PROJECT STATION:1120
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1113 Long W 6511
 start stop duration
 TIME : 02:46 03:46 60 (min) Purpose code: 3
 LOG : 9492.50 9495.30 2.80 Area code : 5
 FDEPTH: 502 503 GearCond.code: 5
 BDEPTH: 502 503 Validity code: 1
 Towing dir: 200° Wire out: 1400 m Speed: 28 kn*10
 Sorted: 21 Kg Total catch: 67.76 CATCH/HOUR: 67.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Bathynomus giganteus	18.00	63	26.56	
Steindachneria argenta	10.50	441	15.50	
Physiculus fulvus	7.20	108	10.63	
Glyptocheilichthys neglecta	3.30	951	4.07	
Nephropsis neglecta	3.09	252	4.56	
Bathygadus melanobranchus	3.00	72	4.43	
Plecticus robustus	2.85	66	4.21	
Benthodesmus tenuis	2.10	15	3.10	
Malaccocephalus occidentalis	2.10	15	3.10	
Nezumia suilla	1.80	30	2.66	
Bathyclupea sp	1.65	21	2.44	
Aristaeomorpha foliacea	1.50	48	2.21	
Stereomastis scouplae	1.35	63	1.99	
Epigonus macrops	1.20	15	1.77	
Illex coindetti	1.00	6	1.48	
Peristedion gracile	0.75	6	1.11	
APLEPOPODIDAE	0.70	1	1.03	
Yarella blackfordi	0.60	12	0.89	
Hymenoccephalus italicus	0.45	48	0.66	
Bembrops anastirostris	0.45	6	0.66	
Pholidoteuthis adami	0.45	1	0.66	
Geryon quinquegens	0.45	1	0.66	
OPHIDIIDAE	0.30	10	0.44	
Nezumia sp	0.30	21	0.44	
Peristedion ecuadorensis	0.30	3	0.44	
Hydrolagus alberti	0.30	3	0.44	
CRABS	0.30	1	0.44	
Munida sp.	0.15	15	0.22	
Nezumia cyrano	0.15	3	0.22	
Parasudis sp	0.15	3	0.22	
Myxine sp.	0.12	3	0.18	
Hoplostethus occidentalis	0.12	3	0.18	
Diretmoides pauciradiatus	0.09	9	0.13	
Munida valida	0.09	9	0.13	
Polymetma corythaeola	0.06	3	0.09	
Chauliodus sloani	0.06	12	0.09	
Noesopolus macrolepidotus	0.03	3	0.04	
Total	67.76		99.99	

PROJECT STATION:1121
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1107 Long W 6518
 start stop duration
 TIME : 06:14 06:33 19 (min) Purpose code: 3
 LOG : 9506.60 9507.50 0.90 Area code : 5
 FDEPTH: 86 86 GearCond.code: 5
 BDEPTH: 86 86 Validity code: 1
 Towing dir: 260° Wire out: 450 m Speed: 18 kn*10
 Sorted: 26 Kg Total catch: 26.53 CATCH/HOUR: 83.78

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus vivanus	31.58	19	37.69	
Upeneus parvus	9.47	379	11.30	
Myceroperca interstitialis	9.47	3	11.30	
Serranus rhoobe	4.74	126	3.66	
Caulolatilus cyanops	4.74	25	5.66	
Chilomycterus antillarum	4.42	13	5.28	
Acanthostracion quadricornis	4.26	3	5.08	
Synodus intermedius	3.79	90	4.52	
Aluterus monoceros	3.79	3	4.52	
Acanthostracion polygonos	3.16	3	3.77	
Seriola rivoliana	1.89	3	2.26	
Fistularia petimba	0.95	6	1.13	
Pristigaster macropthalmus	0.28	9	0.33	
Haemulon striatum	0.22	25	0.26	
Loligo plei	0.22	19	0.26	
Octopus defilippi	0.16	6	0.19	
Sphoeroides dorsalis	0.16	3	0.19	
Holanthias martinicensis	0.16	22	0.19	
Kathetostoma cubana	0.16	3	0.19	
Canthigaster rostrata	0.16	6	0.19	
Total	83.78		99.97	

PROJECT STATION:1122
 DATE:29/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6519
 start stop duration
 TIME : 07:27 07:57 30 (min) Purpose code: 3
 LOG : 9514.00 9515.20 1.20 Area code : 5
 FDEPTH: 41 36 GearCond.code: 5
 BDEPTH: 41 36 Validity code: 9
 Towing dir: 270° Wire out: 200 m Speed: 25 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
TONS OF SPONGES	2.00	2	200.00	
Chaetodon striatus	0.00			
Chaetodon sedentarius	0.00			
Pomacanthus arcuatus	0.00			
Priacanthus arenatus	0.00			
Paranthias furcifer	0.00			
Serranus baldwini	0.00			
Acanthostracion polygonos	0.00			
Pseuduponeus maculatus	0.00			
Fistularia potii	0.00			
Acanthurus chirurgus	0.00			
Haemulon aurolineatum	0.00			
Haemulon melanurum	0.00			
Haemulon plumieri	0.00			
Calanus pennatula	0.00			
Calanus penna	0.00			
Myceroperca venenosa	0.00			
Sphyræna barracuda	0.00			
Sparisoma aurofrenatum	0.00			
Clepticus porrai	0.00			
Pomacanthus paru	0.00			
Balistes vetula	0.00			
Scorpaena plumieri	0.00			
Holacanthus tricolor	0.00			
Serranus tortugarum	0.00			
Total	2.00		200.00	

PROJECT STATION:1123
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1145 Long W 6528
 start stop duration Purpose code: 3
 TIME : 09:46 10:16 30 (min) Area code : 5
 LOG : 19530.40 9531.80 1.40 GearCond.code:
 FDEPTH: 70 71 Validity code: 1
 BDEPTH: 70 71
 Towing dir: 270° Wire out: 350 m Speed: 28 kn*10

Sorted: 16 Kg Total catch: 15.66 CATCH/HOUR: 31.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chilomycterus antillarum	6.40	28	26.02	
Synodus intermedius	6.40	140	20.43	
Pagrus pagrus	5.40	10	17.24	
Acanthostracion polygonos	2.00	4	8.94	
Caulolatilus cyanops	2.00	10	6.39	
Sycaeus sp.	1.00	16	5.75	
Pistularia petimba	1.20	18	3.83	
Sycaium microrum	1.00	6	3.79	
Bothus ocellatus	0.50	22	1.60	
Loligo plei	0.50	22	1.60	
Trachinocephalus myops	0.40	6	1.28	
Gastropsetta frontalis	0.26	2	0.83	
Sphoeroides dorsalis	0.20	6	0.64	
Prionotus punctatus	0.20	4	0.64	
Scorpaena agassizi	0.16	6	0.51	
Prionotus ophryns	0.10	4	0.32	
Total	31.32		100.01	

PROJECT STATION:1126
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1058 Long W 6557
 start stop duration Purpose code: 3
 TIME : 15:42 16:12 30 (min) Area code : 5
 LOG : 19576.00 9577.30 1.30 GearCond.code:
 FDEPTH: 72 68 Validity code:
 BDEPTH: 72 68
 Towing dir: 240° Wire out: 350 m Speed: 26 kn*10

Sorted: 66 Kg Total catch: 65.87 CATCH/HOUR: 131.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Seriola rivoliana	69.20	8	52.53	
Lutjanus purpurus	16.00	2	12.15	
Lutjanus analis	13.40	2	10.17	
Haemulon album	10.00	2	7.59	
Balistes vetula	8.00	12	6.07	
Dactylopterus volitans	5.00	8	3.80	
Pistularia petimba	3.00	22	2.28	
Acanthostracion polygonos	3.00	18	2.28	
Chaetodon sedentarius	2.20	74	1.67	
Loligo plei	0.80	12	0.61	
Synodus intermedius	0.40	10	0.30	
Scorpaena dispar	0.40	2	0.30	
Canthigaster rostrata	0.10	6	0.08	
Scorpaena brasiliensis	0.10	2	0.08	
Serranus phoebe	0.06	4	0.05	
Serranus tortugarum	0.04	6	0.03	
Synodus sp	0.04	2	0.03	
Total	131.74		100.02	

PROJECT STATION:1124
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1058 Long W 6529
 start stop duration Purpose code: 3
 TIME : 11:28 11:58 30 (min) Area code : 5
 LOG : 19541.90 9543.50 1.60 GearCond.code:
 FDEPTH: 56 40 Validity code:
 BDEPTH: 56 40
 Towing dir: 200° Wire out: 300 m Speed: 32 kn*10

Sorted: 21 Kg Total catch: 224.83 CATCH/HOUR: 449.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	146.40	1244	32.56	
Calanus pennatula	93.10	248	20.70	
Upeneus parvus	44.40	4174	9.87	
Leachnolaemus maximus	43.00	8	9.56	
Mycteroperca cidi	30.60	2	6.81	
Decapterus punctatus	24.00	3908	5.34	204
Seriola rivoliana	18.00	2	4.00	
Pseudupeneus maculatus	10.80	216	2.40	
Lutjanus vivanus	10.20	156	2.27	
Acanthostracion quadricornis	6.00	6	1.33	
Haemulon boeckmae	5.40	696	1.20	
Lutjanus buccanella	4.20	48	0.93	
Rhomboplites aurorubens	3.60	36	0.80	
Pistularia tabacaria	3.00	4	0.67	
Dactylopterus volitans	2.40	12	0.53	
Haemulon acrolinatum	2.40	68	0.53	
LABRIDAE	0.36	228	0.08	
Chaetodon sedentarius	0.36	36	0.08	
Diplectrum radiale	0.36	24	0.08	
Synodus sp	0.24	72	0.05	
Synodus intermedius	0.24	12	0.05	
Loligo plei	0.24	24	0.05	
Serranus phoebe	0.12	24	0.03	
Pristipomoides macrophthalmus	0.12	24	0.03	
Bothus ocellatus	0.12	12	0.03	
SCARIDAE	0.00	12	0.00	
Sphoeroides spangleri	0.00	24	0.00	
Sphoeroides dorsalis	0.00	12	0.00	
Haemulon melanurum	0.00	12	0.00	
Total	449.66		99.98	

PROJECT STATION:1127
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1047 Long W 6647
 start stop duration Purpose code: 3
 TIME : 17:35 18:05 30 (min) Area code : 6
 LOG : 19590.60 9591.00 1.20 GearCond.code:
 FDEPTH: 64 65 Validity code:
 BDEPTH: 64 65
 Towing dir: 250° Wire out: 350 m Speed: 25 kn*10

Sorted: 37 Kg Total catch: 36.63 CATCH/HOUR: 73.26

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Acanthostracion polygonos	27.00	18	36.06	
Seriola rivoliana	9.20	2	12.56	
Mustelus norrisi	8.40	2	11.47	
Lutjanus analis	7.00	2	9.56	
Balistes vetula	6.80	2	9.28	
Acanthostracion quadricornis	4.20	16	5.73	
Pistularia tabacaria	2.90	4	3.96	
Pistularia petimba	2.00	16	2.73	
Cyclopomella chittendeni	1.30	2	1.77	
Sycaium papillosum	1.12	12	1.53	
Caulolatilus cyanops	0.90	2	1.23	
Lutjanus vivanus	0.82	2	1.12	
Serranus phoebe	0.46	22	0.63	
Dactylopterus volitans	0.24	2	0.33	
Cochuvelin boups	0.20	4	0.27	
Pseudupeneus maculatus	0.20	6	0.27	
Trachinocephalus myops	0.20	6	0.27	
Synodus sp	0.10	6	0.14	
Synodus intermedius	0.06	8	0.08	
Scorpaena brasiliensis	0.04	4	0.05	
Bothus sp	0.04	8	0.05	
Loligo plei	0.04	6	0.05	
Monacanthus sp	0.02	2	0.03	
Bothus ocellatus	0.02	2	0.03	
Total	73.26		100.00	

PROJECT STATION:1125
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6548
 start stop duration Purpose code: 3
 TIME : 14:14 14:44 30 (min) Area code : 5
 LOG : 19566.00 9568.00 1.20 GearCond.code:
 FDEPTH: 70 69 Validity code:
 BDEPTH: 70 69
 Towing dir: 250° Wire out: 350 m Speed: 24 kn*10

Sorted: 13 Kg Total catch: 13.11 CATCH/HOUR: 26.22

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Synodus intermedius	7.90	14	30.13	
Pistularia petimba	2.40	16	9.15	
Sycaium papillosum	2.00	16	7.63	
Dactylopterus volitans	2.00	4	7.63	
Pagrus pagrus	1.90	2	7.25	
Acanthostracion polygonos	1.60	16	6.10	
Chilomycterus antillarum	1.60	6	6.10	
Sphoeroides dorsalis	1.20	32	4.58	
Caulolatilus cyanops	0.90	2	3.43	
Trachinocephalus myops	0.90	10	3.43	
Gastropsetta frontalis	0.80	2	3.05	
Scorpaena brasiliensis	0.70	22	2.67	
Cyclopomella chittendeni	0.60	4	2.29	
Lutjanus purpurus	0.50	2	1.91	
Bothus ocellatus	0.40	10	1.53	
Porichthys sp	0.40	18	1.53	
Loligo plei	0.30	2	1.14	
Dibranchius atlanticus	0.04	2	0.15	
Torpedo sp	0.04	4	0.15	
Ogcocephalus pumilus	0.02	4	0.08	
Haliutichthys aculeatus	0.02	4	0.08	
Total	26.22		100.01	

PROJECT STATION:1128
 DATE:28/11/88 GEAR TYPE: PT No:4 POSITION:Lat N 1038 Long W 6609
 start stop duration Purpose code: 1
 TIME : 20:00 20:30 30 (min) Area code : 6
 LOG : 19606.50 9608.40 1.90 GearCond.code: 1
 FDEPTH: 2 6 Validity code: 3
 BDEPTH: 27 29
 Towing dir: 115° Wire out: 50 m Speed: 38 kn*10

Sorted: 3 Kg Total catch: 117.12 CATCH/HOUR: 234.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ocyurus chrysurus	101.40	150	43.29	206
Sardinella aurita	70.40	53422	30.05	209
Selene vomer	16.40	32	7.00	207
Selene spixii	13.00	30	5.55	208
Anchoa sp	10.24		4.37	
Albula vulpes	6.60	6	2.82	
Sphyræna picudilla	5.00	16	2.13	
Salar crumenophthalmus	4.00	30	1.71	
Harengula sp	2.24	288	0.96	
Tylosurus acus acus	1.00	2	0.43	
Saurida sp	0.96	608	0.41	
Anchevella per fasciata	0.64	320	0.27	
Rtrunus toros	0.64	320	0.27	
Loligo plei	0.64	128	0.27	
Eucinostomus argenteus	0.44	4	0.19	
Pristipomoides macrophthalmus	0.32	128	0.14	
Sphyræna guachancho	0.32	32	0.14	
Synodus sp	0.00	32		
Total	234.24		100.00	

PROJECT STATION:1129
 DATE:28/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1102 Long W 6621
 start stop duration Purpose code: 3
 TIME : 23:51 00:51 60 (min) Area code : 6
 LOG : 19638.70 9641.30 2.60 GearCond.code: 1
 FDEPTH: 355 363 Validity code: 1
 BDEPTH: 355 363
 Towing dir: 270° Wire out:1050 m Speed: 26 kn*10

Sorted: 7 Kg Total catch: 99.60 CATCH/HOUR: 99.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Coelorinchus occa	24.00	732	24.10	
Bathynomus giganteus	16.56	24	16.63	
Steindachneria argenta	14.40	696	14.46	
Polymixis lowei	7.80	144	7.83	
Argentina sp	7.20	312	7.23	
Illex coindetii	6.45	65	6.45	
Bembrops anatirostris	4.80	60	4.82	
Parasudis sp	3.84	240	3.86	
Pontinus longispinis	3.60	12	3.61	
Parasudis truculentus	2.40	96	2.41	
Peristodion sp	1.80	12	1.81	
Aluterus monoceros	1.30	1	1.31	
Neompterus sp	1.20	24	1.20	
Neompterus orientalis	1.20	12	1.20	
Arizona melanum	1.20	12	1.20	
Plecticus robustus	0.65	9	0.65	
Trichopsatta ventralis	0.60	24	0.60	
Squilla edentata	0.24	12	0.24	
MYCTOPHIDAE	0.24	48	0.24	
Zenion sp.	0.12	12	0.12	
Benthodesmus tenuis	0.00	12		
Total	99.60		100.00	

PROJECT STATION:1130
 DATE:29/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1104 Long W 6624

TIME : 01:49 start stop duration
 LOG : 9647.30 9650.10 2.80 Purpose code: 3 Area code : 6
 FDEPTH: 400 397 GearCond.code: 1
 BDEPTH: 400 397 Validity code: 1
 Towing dir: 260° Wire out:1200 m Speed: 28 kn*10

Sorted: 8 Kg Total catch: 99.31 CATCH/HOUR: 99.31

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Iloix coimdetti	20.00	129	20.14	
Stoindochmeria argenta	16.80	728	16.92	
Polymixia lowei	14.00	196	14.10	
Ploticus robustus	7.70	203	7.75	210
Parasudis sp	7.00	182	7.05	
Bembrops anatirostris	5.60	70	5.64	
Rossia antillensis	3.50	14	3.52	
Physiculus fulvus	3.50	42	3.52	
Coelorinchus oca	3.50	70	3.52	
Parasudis trunculentus	3.22	42	3.24	
Helicolenus dactylopterus	2.80	4	2.82	
Torpedo nobiliana	2.40	1	2.42	
Morluccius albidus	2.27	7	2.29	
Polymetoe corythacola	2.10	84	2.11	
Benthodesmus tenuis	1.82	224	1.83	
Penaeopsis serrata	0.42	140	0.42	
Gnathagnus egregius	0.30	1	0.30	
Hildebrandia flava	0.28	14	0.28	
Xenolepidichthys dalgleishii	0.28	14	0.28	
Argentina sp.	0.28	14	0.28	
Peristodion gracile	0.28	14	0.28	
Epigonus pandionis	0.28	28	0.28	
Malaccocephalus occidentalis	0.28	28	0.28	
Rtmopterus sp	0.28	112	0.28	
Plesionika edwardsii	0.14	42	0.14	
Dibranchius atlanticus	0.14	28	0.14	
Peristodion sp	0.14	28	0.14	
Nephropsis neglecta	0.00	14		
Total	99.31		99.97	

PROJECT STATION:1131
 DATE:30/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1050 Long W 6655

TIME : 12:03 start stop duration
 LOG : 9710.10 9711.50 1.40 Purpose code: 3 Area code : 6
 FDEPTH: 104 101 GearCond.code: 1
 BDEPTH: 104 101 Validity code: 1
 Towing dir: 250° Wire out: 500 m Speed: 28 kn*10

Sorted: 60 Kg Total catch: 60.86 CATCH/HOUR: 121.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Seriola rivoliana	66.20	10	54.39	
Lutjanus vivanus	25.80	6	21.20	
AMMODONTIDAE	9.60	1452	7.89	
Serranus phoebe	7.60	578	6.24	
Upeneus parvus	3.00	306	2.46	
Dactylopterus volitans	1.60	4	1.31	
Acanthostracion quadricornis	1.20	2	0.99	
Chilomycterus antillarum	1.20	4	0.99	
Trachinocephalus myops	1.20	4	0.99	
Holanthias martinicensis	1.00	66	0.82	
Chaetodon sedentarius	0.90	30	0.74	
Pristigynys aita	0.40	2	0.33	
Antigonia capron	0.40	4	0.33	
Chaetodon guyanensis	0.30	6	0.25	
Decodon puellaris	0.30	10	0.25	
Scorpaena agassizi	0.26	2	0.21	
Syacium sp.	0.20	46	0.16	
Gastropsetta frontalis	0.20	2	0.16	
Ogcocephalus vespertilio	0.20	2	0.16	
Pontinus castor	0.10	10	0.08	
POMACANTHIDAE	0.04	2	0.03	
Prionotus roseus	0.02	2	0.02	
Total	121.72		100.00	

PROJECT STATION:1132
 DATE:30/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1039 Long W 6640

TIME : 16:26 start stop duration
 LOG : 9740.00 9741.30 1.30 Purpose code: 3 Area code : 6
 FDEPTH: 54 61 GearCond.code: 1
 BDEPTH: 54 61 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 28 kn*10

Sorted: 32 Kg Total catch: 32.31 CATCH/HOUR: 64.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	12.40	2	19.19	
Prionotus punctatus	9.00	32	13.93	
Fistularia petimba	7.00	26	10.83	
Synodus sp	6.40	1152	9.90	
Upeneus parvus	5.00	550	7.74	
Calamus pinnatula	4.80	6	7.43	
Pristipomoides macrophthalmus	3.60	138	5.57	
Dactylopterus volitans	3.60	10	5.57	
Acanthostracion quadricornis	3.40	14	5.26	
Paralichthys tropicus	2.00	2	3.10	
Rhomboplites aurorubens	1.40	10	2.17	
Chilomycterus antillarum	1.30	4	2.01	
Syacium papillosum	1.00	14	1.55	
Synodus sp	1.00	4	1.55	
Eucinostomus sp	0.80	22	1.24	
Diploctrum radiale	0.80	60	1.24	
Caulolatilus cyanops	0.50	2	0.77	
Loligo plei	0.20	24	0.31	
Syacium sp.	0.10	58	0.15	
Lutjanus purpureus	0.10	14	0.15	
Lutjanus vivanus	0.00	8	0.12	
Solar crumenophthalmus	0.08	8	0.12	
Ogcocephalus sp	0.04	6	0.06	
Decapterus punctatus	0.02	2	0.03	
Sellator rhairoi	0.00	12		
Priacanthus arenatus	0.00	2		
Holanthias martinicensis	0.00	2		
Total	64.62		99.99	

PROJECT STATION:1133
 DATE:30/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1038 Long W 6636

TIME : 17:50 start stop duration
 LOG : 9749.50 9750.70 1.20 Purpose code: 3 Area code : 6
 FDEPTH: 39 37 GearCond.code: 1
 BDEPTH: 39 37 Validity code: 1
 Towing dir: 265° Wire out: 250 m Speed: 24 kn*10

Sorted: 53 Kg Total catch: 53.75 CATCH/HOUR: 107.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Fistularia petimba	19.00	50	17.67	
Lutjanus analis	14.20	2	13.21	
Calamus penna	12.30	10	11.44	
Prionotus punctatus	12.30	46	11.44	
Selene vomer	11.00	18	10.23	
Acanthostracion quadricornis	5.00	22	4.65	
Lagocephalus laevigatus	4.40	8	4.09	
Scomberomorus cavalla	4.00	2	3.72	
Priacanthus aroonatus	2.20	6	2.05	
Upeneus parvus	2.00	320	1.86	
Sphyræna picudilla	2.00	12	1.86	
Dactylopterus volitans	1.70	4	1.58	
Pristipomoides macrophthalmus	1.60	164	1.49	
Loligo plei	1.60	40	1.49	211
Cyclopaëtta fimbriata	1.50	4	1.40	
Paralichthys tropicus	1.40	2	1.30	
Pagrus pagrus	1.40	2	1.30	
Dalistes capricornis	1.40	2	1.30	
Lactophrys trigonus	1.40	2	1.30	
Solar crumenophthalmus	1.20	12	1.12	
Synodus sp	1.00	244	0.93	
Ogcocephalus parvus	1.00	2	0.93	
Syacium micrurum	0.90	12	0.84	
Decapterus punctatus	0.70	22	0.65	
Synodus foetens	0.60	8	0.56	
Diploctrum bivittatum	0.30	30	0.28	
Haemulon aurolineatum	0.20	18	0.19	
Rhomboplites aurorubens	0.20	74	0.19	
Eucinostomus argenteus	0.20	14	0.19	
Syacium papillosum	0.20	2	0.19	
Eucinostomus gula	0.10	16	0.09	
Lutjanus purpureus	0.10	32	0.09	
Lutjanus vivanus	0.10	2	0.09	
Selene setapinnis	0.10	2	0.09	
Sepioteuthis sepioides	0.10	2	0.09	
Lutjanus buccanella	0.06	24	0.06	
Penaeus brasiliensis	0.04	14	0.04	
Narcine brasiliensis	0.00	2		
Alectis ciliaris	0.00	2		
Total	107.50		100.00	

PROJECT STATION:1134
 DATE:30/11/88 GEAR TYPE: BT No:1 POSITION:Lat N 1040 Long W 6628

TIME : 20:03 start stop duration
 LOG : 9764.70 9766.20 1.50 Purpose code: 3 Area code : 6
 FDEPTH: 111 96 GearCond.code: 1
 BDEPTH: 111 96 Validity code: 1
 Towing dir: 270° Wire out: 550 m Speed: 30 kn*10

Sorted: 21 Kg Total catch: 59.50 CATCH/HOUR: 101.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	20.70	414	20.50	212
Pristipomoides macrophthalmus	18.00	1692	17.82	
Mustelus canis	13.40	4	13.27	
Paralichthys tropicus	11.10	20	10.99	
Saurida normani	7.50	76	7.43	
Myliobatis freminvillei	5.00	2	4.95	
Pagrus pagrus	4.80	6	4.75	
Trachurus lathami	3.00	22	2.97	
Pomadasys croceus	3.00	10	2.97	
Fistularia petimba	2.70	22	2.67	
Syacium micrurum	2.10	102	2.08	
Syacium papillosum	1.80	28	1.70	
Prionotus punctatus	1.80	6	1.70	
Penaeus brasiliensis	1.00	22	0.99	
Prionotus boani	0.90	64	0.89	
Porichthys bathoiketes	0.76	58	0.75	
Sphoeroides dorsalis	0.60	40	0.59	
Scorpaena agassizi	0.46	24	0.46	
Scomber japonicus	0.46	4	0.46	
Hildebrandia sp.	0.30	18	0.30	
Ancylorsetta dilecta	0.30	10	0.30	
Loligo plei	0.30	16	0.30	
Serranus atrobranchus	0.30	72	0.30	
Lolliguncula brevis	0.18	12	0.18	
Hoplunnis sp	0.16	28	0.16	
Notius lunatus	0.16	10	0.16	
Lepophidium profundorum	0.16	22	0.16	
Narcine brasiliensis	0.06	4	0.06	
Scorpaena brasiliensis	0.00	4		
Ophidion sp.	0.00	4		
Haliutichthys sp.	0.00	4		
Lepophidium pheromastax	0.00	4		
Squilla empusa	0.00	4		
Semirossia equalis	0.00	4		
Serranus phoebe	0.00	10		
Solar crumenophthalmus	0.00	4		
Harengula jaguana	0.00	4		
Total	101.00		100.02	

PROJECT STATION:1136
 DATE: 30/11/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1051 Long W 6629
 TIME : 22:07 22:52 45 (min) Purpose code: 3
 LOG : 9778.50 9760.40 1.90 Area code : 6
 FDEPTH: 230 249 GearCond.code: 6
 BDEPTH: 230 249 Validity code: 1
 Towing dir: 270° Wire out: 900 m Speed: 25 kn*10
 Sorted: 24 Kg Total catch: 79.84 CATCH/HOUR: 106.45

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	34.80	236	32.69	
Antigonia capros	10.00	304	9.39	
Lophiodes sp.	5.80	1	5.45	
Trachurus lathami	4.00	16	3.76	
Prionotus beani	3.20	44	3.01	
Pontinus longispinis	3.20	28	3.01	
Illex coindetii	3.20	24	3.01	
Lepophidium profundorum	3.20	24	3.01	
Peristadion sp	3.20	72	3.01	
Squatina dumeril	3.07	4	2.88	
Argentina sp.	3.00	284	2.82	
Polymixia lowei	2.80	140	2.63	
Peristadion miniatum	2.80	28	2.63	
Synagrops sp.	2.60	252	2.44	
Solenocera acuminata	2.60	300	2.44	213
Neopinnula orientalis	2.40	120	2.25	
Loligo pealei	2.00	76	1.88	
Sphaeroides pachgaster	2.00	24	1.88	
Decapterus tabl	2.00	12	1.88	
Saurida normani	2.00	20	1.88	
MORIDAE	1.20	352	1.13	
Parapanaeus longirostris	1.00	320	0.94	
Squalus cubensis	0.93	1	0.87	
Epinephelus flavolimbatus	0.80	56	0.75	
Bembrops anatrostris	0.80	32	0.75	
Pikia mexicana	0.80	64	0.75	
Hoplunnis sp	0.60	20	0.64	
Hildebrandia sp.	0.60	12	0.56	
Coelorrhinus ocea	0.60	12	0.56	
Syacium sp.	0.20	92	0.26	
Symphurus plagiatus	0.20	24	0.19	
Zenopsis ocellata	0.20	4	0.19	
PLEURONCTYDAE	0.00	0	0.00	
Synchropus agassizii	0.04	4	0.04	
Syacium sp.	0.04	24	0.04	
Porichthys sp	0.00	12		
Total		106.45	100.01	

PROJECT STATION:1136
 DATE: 1/12/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1046 Long W 6645
 TIME : 06:29 07:14 45 (min) Purpose code: 3
 LOG : 9830.70 9832.90 2.20 Area code : 6
 FDEPTH: 240 244 GearCond.code: 6
 BDEPTH: 240 244 Validity code: 1
 Towing dir: 270° Wire out: 800 m Speed: 29 kn*10
 Sorted: 15 Kg Total catch: 116.03 CATCH/HOUR: 154.71

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Antigonia comatini	27.73	843	17.92	
Trichurus lepturus	25.20	60	16.29	
Pristipomoides macrophthalmus	21.00	180	13.57	
Synagrops spinosus	10.80	1255	6.98	
Polymixia lowei	10.20	460	6.59	
Squatina dumeril	6.67	3	4.31	
Synagrops sp.	6.60	739	4.27	
Coelorrhinus caribbaeus	6.00	139	3.88	
Sciaea sp	4.80	12	3.10	
Bembrops anatrostris	4.80	948	3.10	
Loligo pealei	4.51	160	2.92	
Antigonia capros	3.73	37	2.41	
Peristadion sp	3.29	43	2.13	
Prionotus stearnsi	3.00	204	1.94	
Pontinus longispinis	3.00	300	1.94	
Trachurus lathami	2.40	7	1.55	
Prionotus beani	2.20	24	1.47	
Argentina sp.	2.11	60	1.36	
Illex coindetii	1.80	36	1.16	
Neopinnula orientalis	1.80	67	1.16	
Peristadion gracile	1.80	48	1.16	
Mutelus canis	0.80	1	0.52	
Semirostris equalis	0.12	43	0.08	
Parapanaeus longirostris	0.07	120	0.05	
Saurida sp	0.07	12	0.05	
Sphaeroides pachgaster	0.07	7	0.05	
Hemanthias leptus	0.07	7	0.05	
Total		154.72	100.01	

PROJECT STATION:1137
 DATE: 1/12/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1038 Long W 6051
 TIME : 08:38 09:08 30 (min) Purpose code: 3
 LOG : 9843.30 9844.70 1.40 Area code : 6
 FDEPTH: 65 71 GearCond.code: 6
 BDEPTH: 65 71 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 28 kn*10
 Sorted: 31 Kg Total catch: 31.31 CATCH/HOUR: 62.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Prionotus punctatus	9.20	30	14.69	
Loligo plei	7.50	408	11.98	214
Fistularia petimba	7.00	16	11.18	
Acanthostracion quadricornis	6.30	22	10.06	
Dasyatis americana	6.00	2	9.58	
Upeneus parvus	5.60	420	8.94	
Lutjanus purpureus	4.60	8	7.95	
Priacanthus arenatus	4.40	4	5.43	
Paralichthys tropicus	3.40	4	5.43	
Synodus intermedius	1.40	150	2.24	
Rhomboplites aurorubens	1.40	38	2.24	
Saurida normani	1.00	220	1.60	
Pristipomoides macrophthalmus	1.00	42	1.60	
Seriola fasciata	1.00	2	1.60	
Chilomyoterus antillarum	0.60	2	0.96	
Selar crumenophthalmus	0.50	2	0.80	
Diplectrum bivittatum	0.40	22	0.64	
Lutjanus vivanus	0.40	10	0.64	
Syacium papillosum	0.12	4	0.19	
Syacium micrurus	0.10	10	0.16	
Ariomma sp	0.06	4	0.10	
Citharichthys cornutus	0.04	42	0.06	
Bohus conilatus	0.00	2		
Antennarius sp.	0.00	2		
Ogcocephalus sp	0.00	2		
Total		62.62	100.02	

PROJECT STATION:1130
 DATE: 1/12/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1032 Long W 6750
 TIME : 14:35 15:05 30 (min) Purpose code: 3
 LOG : 9906.80 9908.20 1.40 Area code : 6
 FDEPTH: 64 61 GearCond.code: 6
 BDEPTH: 64 61 Validity code: 1
 Towing dir: 270° Wire out: 350 m Speed: 28 kn*10
 Sorted: 28 Kg Total catch: 133.73 CATCH/HOUR: 267.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	71.00	126	26.55	215
Calamus penna	47.40	84	17.72	
Lutjanus synagris	40.00	18	14.96	216
Rhomboplites aurorubens	27.00	706	10.09	217
Lachnolaimus maximus	15.20	8	5.68	
Haemulon aurolineatum	15.00	186	5.61	
Eucinostomus argenteus	13.00	302	4.86	
Upeneus parvus	11.10	552	4.15	
Myxotropha interstitialis	7.40	2	2.77	
Pristipomoides macrophthalmus	5.40	170	2.02	
Loligo plei	4.06	150	1.52	
Saurida normani	3.16	90	1.18	
Haemulon striatum	2.56	84	0.96	
Prionotus punctatus	1.80	4	0.67	
Seriola fasciata	1.20	4	0.45	
Seriola rivoliana	0.90	4	0.34	
Priacanthus arenatus	0.90	10	0.34	
Syacium sp.	0.12	10	0.04	
Diplectrum radiale	0.10	4	0.04	
Pomaxus notialis	0.10	2	0.04	
Haemulon boschmae	0.06	10	0.02	
Total		267.46	100.01	

PROJECT STATION:1139
 DATE: 1/12/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1034 Long W 6802
 TIME : 16:26 16:56 30 (min) Purpose code: 3
 LOG : 9919.60 9921.20 1.60 Area code : 6
 FDEPTH: 53 47 GearCond.code: 6
 BDEPTH: 53 47 Validity code: 1
 Towing dir: 280° Wire out: 300 m Speed: 32 kn*10
 Sorted: 32 Kg Total catch: 181.60 CATCH/HOUR: 363.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	76.00	1600	20.93	220
Sphyræna picudilla	69.00	470	19.00	
Upeneus parvus	55.00	2894	15.14	
Eucinostomus argenteus	50.00	1352	13.77	
Priacanthus arenatus	25.40	80	6.99	219
Lagocephalus laevis	22.00	20	6.06	
Rhomboplites aurorubens	15.00	150	4.13	
Lutjanus synagris	13.20	42	3.63	218
Selar crumenophthalmus	11.00	140	3.03	
Lutjanus purpureus	6.00	44	1.65	
Calamus pennatula	5.00	10	1.38	
Fistularia petimba	5.00	10	1.38	
Pristipomoides macrophthalmus	4.00	480	1.10	
Synodus sp	3.00	360	0.83	
Saurida sp	2.00	190	0.52	
Syacium papillosum	0.50	10	0.14	
Seriola rivoliana	0.30	10	0.08	
Loligo plei	0.30	550	0.08	
Diplectrum radiale	0.30	30	0.08	
Syacium sp.	0.20	20	0.06	
Total		363.20	100.01	

PROJECT STATION:1140
 DATE: 1/12/00 start stop duration GEAR TYPE: BT No:1 POSITION: Lat N 1035 Long W 6810
 TIME : 17:48 18:24 36 (min) Purpose code: 3
 LOG : 9927.90 9929.60 1.70 Area code : 6
 FDEPTH: 35 31 GearCond.code: 6
 BDEPTH: 35 31 Validity code: 1
 Towing dir: 310° Wire out: 200 m Speed: 30 kn*10
 Sorted: 28 Kg Total catch: 161.91 CATCH/HOUR: 269.05

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	43.50	197	16.12	221
Sphyræna guachancho	35.67	213	13.22	223
Chloroscombrus chrysurus	27.33	487	10.13	
Cynoscion jamaicensis	26.67	133	9.88	
Diapterus olivaceus	21.33	240	7.90	
Eucinostomus gula	18.67	833	6.92	
Rhomboplites aurorubens	15.83	53	5.87	222
Upeneus parvus	13.33	320	4.94	
Prionotus punctatus	9.67	27	3.50	
Trichurus lepturus	9.33	40	3.46	
Scomberomorus brasiliensis	6.83	8	2.53	
Harengula jaguana	5.67	100	2.10	
Selene setipinnis	4.67	67	1.73	
Scomberomorus cavalla	4.17	7	1.55	
Gerres cinereus	4.00	13	1.48	
Albula vulpes	3.33	7	1.23	
Lutjanus purpureus	3.00	5	1.11	
Priacanthus arenatus	2.83	7	1.05	
Chirocentron bleekeri	2.00	320	0.74	
Scomberomorus cavalla	2.00	20	0.74	
Chaetodipterus faber	2.00	7	0.74	
Synodus foetens	1.33	27	0.49	
Selar crumenophthalmus	1.33	7	0.49	
Micropogonias furnieri	1.33	2	0.49	
Loligo plei	1.00	33	0.37	
Saurida sp	1.00	107	0.37	
Papilio paru	1.00	7	0.37	
Loligo pealei	0.33	13	0.12	
Pomaxus notialis	0.22	10	0.08	
Haemulon aurolineatum	0.22	20	0.07	
Hyptis sp	0.13	7	0.05	
Diplectrum bivittatum	0.13	40	0.05	
Calamus pennatula	0.00	7		
Syacium micrurus	0.00	7		
Total		269.05	99.97	

PROJECT STATION:1144
 DATE: 1/12/88 GEAR TYPE: PF No:2 POSITION:Lat N 1044 Long W 6812
 start stop duration
 TIME : 22:22 22:52 30 (min) Purpose code: 1
 LOG : 9966,20 9967,50 1,30 Area code : 6
 FDEPTH: 10 15 GearCond.code: 1
 BDEPTH: 39 42 Validity code: 3
 Towing dir: 40° Wire out: 50 m Speed: 26 kn*10

Sorted: 4 Kg Total catch: 36.05 CATCH/HOUR: 72.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Anchoviella perfasciata	51.20	4746	71.01	225
Saurida sp	10.40	8770	14.42	
Chloroscombrus chrysurus	5.40	76	7.49	224
Sphyraena guachancho	4.80	18	6.66	
Pseudupeneus maculatus	0.30	10	0.42	
Bregmaceros sp.	0.00	224		
Rhomboplites aurorubens	0.00	144		
Porichthys sp	0.00	16		
Total	72.10		100.00	

PROJECT STATION:1144
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1103 Long W 6813
 start stop duration
 TIME : 06:30 07:00 30 (min) Purpose code: 3
 LOG : 15.00 16.40 1.40 Area code : 6
 FDEPTH: 63 58 GearCond.code: 1
 BDEPTH: 63 58 Validity code: 1
 Towing dir: 293° Wire out: 350 m Speed: 28 kn*10

Sorted: 19 Kg Total catch: 57.88 CATCH/HOUR: 115.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Selar crumenophthalmus	31.50	264	27.21	230
Lutjanus synagris	15.40	36	13.30	228
Lutjanus analis	14.60	6	12.61	
Eucinostomus gula	13.50	310	11.66	
Lutjanus purpureus	9.60	60	0.29	229
Pristipomoides macrophthalmus	5.00	64	4.32	
Upeneus parvus	4.20	162	3.63	
Albula vulpes	3.60	10	3.11	
Chaetodontopterus faber	3.50	2	3.02	
Caulolatilus guppyi	3.20	8	2.76	
Cyclopssetta chittendeni	2.20	4	1.90	
Haemulon aurolineatum	1.80	24	1.55	
Calamus penna	1.80	2	1.55	
Loligo plei	1.60	78	1.38	
Lagocephalus laevigatus	1.50	4	1.30	
Illex coindetti	0.90	4	0.78	
Fistularia petimba	0.60	2	0.52	
Priacanthus arenatus	0.52	2	0.45	
Rhomboplites aurorubens	0.40	8	0.35	
Peneaus notialis	0.30	10	0.26	
Diplectrum bivittatum	0.04	6	0.03	
Total	115.76		99.98	

PROJECT STATION:1142
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1053 Long W 6750
 start stop duration
 TIME : 01:32 02:32 60 (min) Purpose code: 3
 LOG : 9991,30 9993,80 2,50 Area code : 6
 FDEPTH: 508 462 GearCond.code: 1
 BDEPTH: 508 462 Validity code: 1
 Towing dir: 325° Wire out: 1500 m Speed: 25 kn*10

Sorted: 18 Kg Total catch: 103.95 CATCH/HOUR: 103.95

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pholidoteuthis adami	18.30	7	17.60	
Bathynomus giganteus	12.00	33	11.54	
Nephropsis aculeata	10.20	270	9.81	
Steindachneria argenta	9.00	732	8.66	
BATHYCLUPEIDAE	9.00	114	8.66	
Centropomus squamosus	9.00	1	8.66	
Geryon sp.	6.30	9	6.06	
Coelorrinchus caribbaeus	6.00	120	5.77	
Aristaemorpha follicea	4.20	186	4.04	
Physiculus fulvus	3.60	60	3.46	
Benthodesmus tenuis	3.60	66	3.46	
Illex coindetti	3.00	9	2.89	
Glyphocrangon neglecta	2.40	810	2.31	
Peneopsis serrata	1.80	75	1.73	
Helicolenus dactylopterus	1.20	3	1.15	
Rossia sp	1.20	9	1.15	
Malacocephalus occidentalis	0.90	6	0.87	
Hoplostethus occidentalis	0.60	6	0.58	
Ijlmia loppel	0.60	6	0.58	
Peristodion sp	0.30	18	0.29	
Bembrops sp	0.18	18	0.17	
Anacanthobatis sp.	0.15	3	0.14	
Nezumia aulla	0.12	18	0.12	
Gonostoma sp	0.12	6	0.12	
Dibranchius atlanticus	0.06	18	0.06	
Bathyporeia viridensis	0.06	6	0.06	
Hildebrandia sp.	0.06	12	0.06	
Stereomastis sculpta	0.00	6		
Hoplunnis sp	0.00	6		
Total	103.95		100.00	

PROJECT STATION:1145
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1115 Long W 6024
 start stop duration
 TIME : 09:19 09:36 17 (min) Purpose code: 3
 LOG : 31.30 31.90 0,60 Area code : 6
 FDEPTH: 48 46 GearCond.code: 5
 BDEPTH: 48 46 Validity code: 1
 Towing dir: 318° Wire out: 250 m Speed: 20 kn*10

Sorted: 27 Kg Total catch: 81.86 CATCH/HOUR: 288.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Eucinostomus gula	46.59	1165	16.13	
Selene setapinnis	33.88	402	11.73	232
Diapterus rhombus	32.47	191	11.24	
Upeneus parvus	32.47	1218	11.24	
Chloroscombrus chrysurus	21.88	529	7.57	231
Lutjanus analis	20.12	4	6.96	
Lutjanus synagris	16.94	53	5.86	
Scomberomorus cavalla	15.88	4	5.50	
Dasyatis americana	10.59	4	3.67	
Albula vulpes	9.88	28	3.42	
Rhizoprionodon porosus	8.82	4	3.05	
Sphyraena guachancho	7.06	14	2.44	
Cyclopssetta chittendeni	4.94	7	1.77	
Loligo pealei	4.24	176	1.47	
Selene vomer	4.24	7	1.47	
Selar crumenophthalmus	4.24	35	1.47	
Rhomboplites aurorubens	3.18	21	1.10	
Ctenosciaena gracilicirrus	2.82	56	0.98	
Sphyraena picudilla	2.82	14	0.98	
Saurida normani	2.47	28	0.85	
Pomatomus saltatrix	2.12	4	0.73	
Synodus intermedius	0.71	176	0.25	
Pristipomoides macrophthalmus	0.32	7	0.11	
Lutjanus purpureus	0.25	7	0.09	
Peneaus brasiliensis	0.00	7		
Peneaus notialis	0.00	21		
Total	288.93		100.02	

PROJECT STATION:1143
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1055 Long W 6757
 start stop duration
 TIME : 03:37 04:37 60 (min) Purpose code: 3
 LOG : 9997,60 0,40 7,20 Area code : 6
 FDEPTH: 383 371 GearCond.code: 1
 BDEPTH: 383 371 Validity code: 1
 Towing dir: 315° Wire out: 1200 m Speed: 28 kn*10

Sorted: 26 Kg Total catch: 83.55 CATCH/HOUR: 83.55

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Steindachneria argenta	34.80	2360	41.65	
Merluccius albidus	9.00	12	10.77	
Coelorrinchus caribbaeus	4.95	141	5.92	
Parasudis trunculentus	4.50	69	5.39	
Illex coindetti	4.50	24	5.39	
Pontinus longispinis	3.90	30	4.67	
Bembrops sp	2.40	30	2.87	
Polymixia lowei	2.10	18	2.51	
Bathynomus giganteus	1.80	3	2.15	
Argentina sp.	1.50	51	1.80	
Etmopterus sp	1.50	33	1.80	
Peristodion sp	1.50	27	1.80	
Benthodesmus tenuis	1.35	75	1.62	
Neopinnula orientalis	1.35	3	1.62	
Argyroplecus sp	1.20	309	1.44	
Aristaemorpha follicea	1.00	15	1.20	226
Cyttopsis robusus	0.90	18	1.08	
Plecticus robustus	0.80	19	0.96	227
Pocillosetta albomarginata	0.75	45	0.90	
Nealotus tripes	0.75	3	0.90	
Nephropsis sp	0.45	2	0.54	
Plesionika edwardsii	0.35	17	0.42	
Metanephrops binghami	0.30	9	0.36	
MYCTOPHIDAE	0.30	21	0.36	
Gonostoma sp	0.24	12	0.29	
Rossia sp	0.21	6	0.25	
Squilla empusa	0.20	4	0.24	
Physiculus fulvus	0.15	6	0.18	
Peristodion miniatum	0.15	3	0.18	
Solenocera sp	0.15	23	0.18	
Dibranchius atlanticus	0.12	9	0.14	
Hoplostethus occidentalis	0.09	9	0.11	
Malacocephalus occidentalis	0.09	6	0.11	
Hunida sp.	0.05	7	0.06	
Lepophidium profundorum	0.03	3	0.04	
Hildebrandia sp.	0.03	3	0.04	
BATHYCLUPEIDAE	0.03	3	0.04	
Chauliodus sloani	0.03	9	0.04	
Polychaetes sp.	0.03	7	0.04	
Parasudis sp.	0.00	6		
Helicolenus dactylopterus	0.00	3		
Oplrophis sp	0.00	2		
Solenocera acuminata	0.00	3		
Total	83.55		100.06	

PROJECT STATION:1146
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1124 Long W 6835
 start stop duration
 TIME : 11:17 11:47 30 (min) Purpose code: 3
 LOG : 46.60 47.80 1,20 Area code : 6
 FDEPTH: 56 62 GearCond.code: 1
 BDEPTH: 56 62 Validity code: 1
 Towing dir: 310° Wire out: 300 m Speed: 23 kn*10

Sorted: 72 Kg Total catch: 72.08 CATCH/HOUR: 144.16

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lutjanus analis	37.70	28	26.15	235
Lutjanus synagris	27.80	56	19.28	234
Eucinostomus argenteus	25.90	436	17.97	
Seriola dumerilii	14.30	6	9.92	
Calamus penna	8.70	14	6.03	
Priacanthus arenatus	4.30	12	2.98	
Lutjanus purpureus	3.30	8	2.29	
Scomberomorus brasiliensis	3.20	4	2.22	
Rhomboplites aurorubens	3.00	718	2.08	
Rhionotus punctatus	3.00	10	2.08	
Loligo plei	2.50	570	1.73	
Upeneus parvus	2.40	4	1.60	
Cyclopssetta chittendeni	2.30	4	1.66	233
Pristipomoides macrophthalmus	2.00	60	1.39	
Calamus pennatula	1.30	2	0.90	
Decapterus punctatus	1.00	50	0.69	
Synodus foetans	0.70	2	0.49	
Diapterus rhombus	0.30	2	0.21	
Synodus sp	0.30	130	0.21	
Diplectrum radiale	0.10	6	0.07	
Syacium sp.	0.06	8	0.04	
Serranus atrobranchus	0.00	2		
Total	144.16		99.99	

PROJECT STATION:1147
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1129 Long W 6857
 start stop duration
 TIME : 13:51 14:28 37 (min) Purpose code: 3
 LOG : 69.50 71.30 1,80 Area code : 6
 FDEPTH: 18 19 GearCond.code: 1
 BDEPTH: 18 19 Validity code: 1
 Towing dir: 270° Wire out: 50 m Speed: 34 kn*10

Sorted: 6 Kg Total catch: 6.91 CATCH/HOUR: 11.21

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Scomberomorus brasiliensis	8.84	11	78.86	
Sphyraena picudilla	2.35	3	20.96	
Upeneus parvus	0.02	2	0.18	
Total	11.21		100.00	

PROJECT STATION:1148
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 6910
 start stop duration Purpose code: 3
 TIME : 16:17 16:47 30 (min) Area code : 6
 LOG : 05.50 07.00 1.50 GearCond.code: 1
 FDEPTH: 75 75 Validity code: 1
 BDEPTH: 75 75
 Towing dir: 290° Wire out: 350 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 175.86 CATCH/HOUR: 351.72

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Haemulon steindachneri	69.30	218	19.70	238
Lutjanus analis	66.80	12	18.99	237
Lutjanus griseus	33.20	2	9.44	
Pristigaster macrophthalmus	31.80	1852	9.04	
Lutjanus synagris	30.40	48	8.64	
Mustelus norrisi	20.40	6	5.80	
Rhomboplites aurorubens	12.96	182	3.68	
Upeneus parvus	12.96	434	3.68	
Saurida sp	11.56	196	3.29	
Priacanthus aronatus	10.86	36	3.09	
Carcharhinus limbatus	10.86	2	3.07	
Selene setapinnis	10.50	50	2.99	
Eucinostomus argenteus	6.66	196	1.89	
Lutjanus purpureus	5.60	8	1.59	
Loligo plei	5.20	650	1.48	
Prionotus punctatus	4.00	8	1.14	
Synodus sp	3.16	336	0.90	
Cyclopssetta chittendeni	2.80	8	0.80	
Serranus atrobranchus	1.40	84	0.40	
Loligo plei	0.50	42	0.14	
Chloroscombrus chrysurus	0.36	14	0.10	
Decapterus punctatus	0.28	42	0.08	
Diplectrum radiale	0.14	14	0.04	
Syacium sp.	0.08	8	0.02	
Total		351.72	99.99	

PROJECT STATION:1149
 DATE: 2/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 6918
 start stop duration Purpose code: 3
 TIME : 17:40 18:10 30 (min) Area code : 6
 LOG : 94.70 96.20 1.50 GearCond.code: 1
 FDEPTH: 41 40 Validity code: 1
 BDEPTH: 41 40
 Towing dir: 260° Wire out: 250 m Speed: 30 kn*10

Sorted: 27 Kg Total catch: 137.26 CATCH/HOUR: 274.52

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Chloroscombrus chrysurus	74.40	1326	27.10	244
Eucinostomus gula	48.60	1044	17.70	
Lutjanus synagris	29.00	56	10.56	239
Sphyræna guachancho	27.80	58	10.13	242
Upeneus parvus	25.00	750	9.11	240
Dasyatis guttata	16.80	2	6.12	
Sphyræna plicudilla	8.00	54	2.91	243
Selene vomer	6.00	6	2.19	
Synodus foetens	5.40	24	1.97	
Lutjanus purpureus	4.40	32	1.60	241
Lagocephalus laevigatus	4.20	6	1.53	
Loligo plei	3.60	276	1.31	
Scomberomorus brasiliensis	3.60	6	1.31	
Scomberomorus cavalla	2.80	2	1.02	
Cyclopssetta chittendeni	1.60	4	0.58	
Synodus sp	0.90	132	0.33	
Diplectrum bivittatum	0.78	84	0.28	
Acanthostracion quadricornis	0.72	6	0.26	
Selene setapinnis	0.36	6	0.13	
Penaeus notialis	0.30	18	0.11	
Rhomboplites aurorubens	0.20	2	0.07	
Saurida sp	0.06	24	0.02	
Serranus atrobranchus	0.00	6		
Total		274.52	99.98	

PROJECT STATION:1150
 DATE: 2/12/88 GEAR TYPE: PT No:2 POSITION:Lat N 1142 Long W 6919
 start stop duration Purpose code: 1
 TIME : 20:15 20:53 38 (min) Area code : 6
 LOG : 113.30 114.90 1.60 GearCond.code: 3
 FDEPTH: 5 25 Validity code: 3
 BDEPTH: 317 174
 Towing dir: 265° Wire out: 100 m Speed: 28 kn*10

Sorted: 31 Kg Total catch: 31.37 CATCH/HOUR: 49.53

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Opisthonema oglinum	26.84	292	54.19	245
MYCTOPHIDAE	20.84	29642	42.08	
Trichurus lepturus	0.87	2	1.76	
Scomber japonicus	0.39	3	0.79	
Seriola rivoliana	0.25	5	0.50	
Ommastrephes pteropus	0.17	2	0.34	
Ariomma melanum	0.11	2	0.22	
Scomberomorus sp	0.05	6	0.10	
Total		49.52	99.98	

PROJECT STATION:1151
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1141 Long W 6901
 start stop duration Purpose code: 3
 TIME : 00:15 01:15 60 (min) Area code : 6
 LOG : 143.50 145.20 1.70 GearCond.code: 1
 FDEPTH: 417 401 Validity code: 1
 BDEPTH: 417 481
 Towing dir: 36° Wire out: 1300 m Speed: 17 kn*10

Sorted: 13 Kg Total catch: 70.14 CATCH/HOUR: 70.14

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Steindachneria argenta	14.10	414	20.10	
Pholidoteuthis adami	9.35	7	13.33	
Merluccius albidus	7.20	6	10.27	
Physiculus fulvus	6.90	156	9.84	
Aristaeomorpha foliacea	5.85	289	8.34	
Epigonus sp	3.60	48	5.13	
Plecticus robustus	3.25	1118	4.63	
Bathynomus giganteus	3.00	9	4.28	
Benthodesmus tenuis	3.00	84	4.28	
Polymetne corythaeola	2.10	90	2.99	
Bathylupea sp	2.10	24	2.99	
Illex coindetii	1.85	11	2.64	
Xiphopenaeus kroyeri	1.69	148	2.41	
Glyptocheilichthys neglecta	1.17	442	1.67	
Coolerichthys caribbaeus	0.90	60	1.28	
Parasudis triculentus	0.60	42	0.86	
Hildebrandia sp.	0.42	6	0.60	
Plesionika edwardsii	0.39	42	0.56	
Setaroches guntheri	0.30	18	0.43	
Hymenocapulus italicus	0.30	132	0.43	
Nomophrys anatrostris	0.30	12	0.43	
LOBIIDAE	0.21	3	0.30	
Paristodion sp	0.18	18	0.26	
Nephropsis aculeata	0.18	31	0.26	
Rossia antillensis	0.15	2	0.21	
Stereomastis sculpta	0.13	31	0.19	
Lampadena luminosa	0.12	6	0.17	
Hoplostethus occidentalis	0.12	6	0.17	
Etmopterus sp	0.12	6	0.17	
Argyropelecus sp	0.12	18	0.17	
Malacocephalus occidentalis	0.12	6	0.17	
Heterocarpus sp	0.07	21	0.10	
Nazunia stilia	0.06	6	0.09	
Zenion sp.	0.06	12	0.09	
Cyttopsis roseus	0.06	6	0.09	
Mundia longipes	0.02	26	0.03	
Pontocaris sp.	0.02	5	0.03	
Munidopsis sp	0.02	13	0.03	
Abraia sp.	0.01	1	0.01	
Lepophidium profundorum	0.00	18		
Total		70.14	100.03	

PROJECT STATION:1152
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1142 Long W 6928
 start stop duration Purpose code: 3
 TIME : 06:28 06:58 30 (min) Area code : 6
 LOG : 187.10 188.00 0.90 GearCond.code: 1
 FDEPTH: 84 79 Validity code: 1
 BDEPTH: 84 79
 Towing dir: 320° Wire out: 450 m Speed: 18 kn*10

Sorted: 17 Kg Total catch: 91.25 CATCH/HOUR: 182.50

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Rhomboplites aurorubens	93.60	2584	51.29	247
Priacanthus aronatus	18.80	64	10.30	246
Pristigaster macrophthalmus	16.00	896	8.77	
Lutjanus analis	6.60	2	3.62	
Saurida sp	5.60	256	3.07	
Upeneus parvus	4.80	216	2.63	
Lutjanus synagris	4.20	4	2.30	
Prionotus punctatus	4.00	8	2.19	
Eucinostomus argenteus	3.60	48	1.97	
Mustelus norrisi	3.20	2	1.75	
Paralichthys tropicus	2.80	4	1.53	
Synodus poyi	2.40	232	1.32	
Lagocephalus laevigatus	2.40	2	1.32	
Loligo plei	2.00	440	1.10	
Haemulon aurolineatum	2.00	24	1.10	
Lutjanus vivanus	2.00	8	1.10	
Calamus penna	1.80	2	0.99	
Fistularia petimba	1.80	12	0.99	
Caulolatilus cyanops	1.40	4	0.77	
Syacium micrurus	0.80	72	0.44	
Cyclopssetta chittendeni	0.80	2	0.44	
Lutjanus buccanella	0.60	2	0.33	
Serranus atrobranchus	0.40	48	0.22	
Haemulon boschmae	0.24	40	0.13	
Penaeus brasiliensis	0.16	16	0.09	
Diplectrum bivittatum	0.16	24	0.09	
Serranus phoebe	0.16	2	0.09	
Equetus lanceolatus	0.10	2	0.05	
Chaetodon sedentarius	0.08	8	0.04	
Sphaeroides dorsalis	0.00	24		
Porichthys sp	0.00	8		
Total		182.50	100.03	

PROJECT STATION:1153
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1140 Long W 6938
 start stop duration Purpose code: 3
 TIME : 08:20 08:50 30 (min) Area code : 6
 LOG : 199.50 201.00 1.50 GearCond.code: 1
 FDEPTH: 27 23 Validity code: 1
 BDEPTH: 27 23
 Towing dir: 330° Wire out: 100 m Speed: 30 kn*10

Sorted: 17 Kg Total catch: 17.04 CATCH/HOUR: 34.08

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP.NO.
Calamus penna	16.00	40	46.95	248
Acanthostracion quadricornis	4.40	28	12.91	
Lutjanus analis	4.40	4	12.91	
Lactophrys trigonus	2.60	2	7.63	
Paralichthys tropicus	1.40	2	4.11	
Loligo plei	1.00	130	2.93	249
Sphyræna plicudilla	0.80	4	2.35	
Prionotus punctatus	0.80	2	2.35	
Eucinostomus argenteus	0.60	6	1.76	
Synodus foetens	0.60	4	1.76	
Chilomycterus antillarum	0.60	2	1.76	
Selar crumenophthalmus	0.40	6	1.17	
Syacium micrurus	0.32	4	0.94	
Syacium gunteri	0.16	2	0.47	
Sphaeroides dorsalis	0.00	2		
Total		34.08	100.00	

PROJECT STATION:1154
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1150 Long W 6940
 start stop duration Purpose code: 3
 TIME : 10:10 10:50 40 (min) Area code : 6
 LOG : 212.90 214.70 1.80 GearCond.code: 1
 FDEPTH: 40 44 Validity code: 1
 DDEPTH: 40 44
 Towing dir: 350° Wire out: 250 m Speed: 28 kn*10

Sorted: 150 Kg Total catch: 150.97 CATCH/HOUR: 226.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	137.70	141	60.81	250
Calamus penna	37.50	98	16.56	251
Seriola rivoliana	10.20	15	4.50	
Acanthostracion quadricornis	9.45	29	4.17	
Eucinostomus argenteus	3.00	23	1.32	
Calamus pennatula	2.40	3	1.06	
Priacanthus arenatus	2.18	8	0.96	
Syacium micrurum	1.95	50	0.86	
Pistularia petimba	1.95	8	0.96	
Aluterus monoceros	1.88	5	0.83	
Pistularia tabacaria	1.80	3	0.79	
Lutjanus purpureus	1.65	15	0.73	
Prionotus punctatus	1.58	11	0.70	
Lutjanus synagris	1.35	23	0.60	
Lutjanus vivanus	1.35	14	0.60	
Synodus foetens	1.20	6	0.53	
Chilomycterus antillarum	1.20	5	0.53	
Upeneus parvus	1.05	83	0.46	
Haemulon boschmae	1.05	101	0.46	
Loligo plei	0.90	165	0.40	
Rhomboplites aurorubens	0.90	21	0.40	
Paralichthys tropicus	0.83	2	0.37	
Synodus sp	0.75	17	0.33	
Diplectrum bivittatum	0.75	70	0.33	
Syacium gunteri	0.45	5	0.20	
Scorpaena plumieri	0.45	2	0.20	
Selar crumenophthalmus	0.45	9	0.20	
Acanthostracion polygonos	0.38	2	0.17	
Narcine brasiliensis	0.15	5	0.07	
Haemulon aurolineatum	0.03	6	0.01	
Halielichthys sp.	0.00	2		
Spherooides dorsalis	0.00	3		
Lutjanus buccanella	0.00	2		
Ocyurus chrysurus	0.00	2		
Serranus acrobranchus	0.00	3		
Total	226.46		100.01	

PROJECT STATION:1156
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1212 Long W 6956
 start stop duration Purpose code: 3
 TIME : 15:32 16:02 30 (min) Area code : 6
 LOG : 247.80 248.40 0.60 GearCond.code: 1
 FDEPTH: 36 50 Validity code: 1
 DDEPTH: 36 50
 Towing dir: 325° Wire out: 200 m Speed: 12 kn*10

Sorted: 51 Kg Total catch: 51.77 CATCH/HOUR: 103.54

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene vomer	22.00	42	21.25	257
Loligo plei	13.00	864	12.56	
Upeneus parvus	11.80	1080	11.40	
Eucinostomus argenteus	10.60	346	10.24	
Lutjanus analis	6.80	8	6.57	
Sphyræna plicudilla	6.80	38	6.57	
Acanthostracion quadricornis	5.00	4	4.83	
Uraspis secunda	4.00	4	3.88	
Lactophrys trigonus	3.60	8	3.48	
Selar crumenophthalmus	3.40	216	3.28	256
Priacanthus arenatus	2.40	8	2.32	
Lagocephalus laevigatus	1.80	4	1.74	
Rhinobatos percellens	1.40	2	1.35	
Lutjanus purpureus	1.40	4	1.35	
Diplectrum radiale	1.40	92	1.35	
Pristipomoides macrophthalmus	1.20	148	1.16	
Prionotus punctatus	1.20	10	1.16	
Anchoviella perfauciata	0.80	196	0.77	258
Syacium sp.	0.80	52	0.77	
Synodus sp	0.80	258	0.77	
Scorpaena brasiliensis	0.80	2	0.77	
Sphyræna quachancho	0.80	2	0.77	
Lutjanus synagris	0.60	2	0.58	
Scorpaena plumieri	0.50	2	0.46	
Rhomboplites aurorubens	0.40	26	0.39	
Trachurus lathami	0.06	6	0.06	
Scomber japonicus	0.04	2	0.04	
Saurida normani	0.02	4	0.02	
Syacium papillosum	0.02	4	0.02	
Myripristis jacobus	0.02	2	0.02	
Epinephelus niveatus	0.02	4	0.02	
Chloroscombrus chrysurus	0.02	2	0.02	
Dactylopterus volitans	0.02	4	0.02	
Ogcocephalus sp	0.02	10	0.02	
Porichthys bathoiketes	0.00	2		
Serranus atrobranchus	0.00	2		
Total	103.54		100.01	

PROJECT STATION:1155
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1209 Long W 6997
 start stop duration Purpose code: 3
 TIME : 13:53 14:23 30 (min) Area code : 6
 LOG : 237.50 238.60 1.10 GearCond.code: 1
 FDEPTH: 120 66 Validity code: 1
 DDEPTH: 120 66
 Towing dir: 350° Wire out: 600 m Speed: 22 kn*10

Sorted: 24 Kg Total catch: 67.19 CATCH/HOUR: 134.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Upeneus parvus	29.74	1526	22.13	252
Pristipomoides macrophthalmus	21.74	1036	16.18	
Trachurus lathami	21.24	818	15.81	253
Loligo pealei	20.74	550	15.43	254
Saurida sp	6.50	90	4.84	
Lachnolaimus maximus	6.30	2	4.69	
Lutjanus analis	6.30	2	4.69	
Loligo plei	5.00	346	3.72	255
Syacium papillosum	3.24	106	2.41	
Synodus intermedius	2.74	66	2.04	
Cyclosetta chittendeni	1.74	10	1.29	
Scomber japonicus	1.74	36	1.29	
Spherooides dorsalis	1.74	126	1.29	
Paranthias furcifer	1.50	16	1.12	
Pistularia petimba	1.00	6	0.74	
Dactylopterus volitans	0.50	20	0.37	
Serranus phoebe	0.50	26	0.37	
Chromis sp	0.30	30	0.22	
Haliichoeres bathyphilus	0.24	6	0.18	
Synodus sp	0.24	70	0.18	
Eqetus lanceolatus	0.24	6	0.18	
Caulolatilus cyanops	0.24	6	0.18	
Penaeus brasiliensis	0.20	4	0.15	
Diplectrum radiale	0.20	16	0.15	
Scorpaena agassizi	0.14	46	0.10	
Paralichthys tropicus	0.10	40	0.07	
Bellator sp	0.06	16	0.04	
Ogcocephalus sp	0.04	30	0.03	
Halielichthys sp.	0.04	30	0.03	
Adioryx bullisi	0.04	6	0.03	
Chaetodon sedentarius	0.04	6	0.03	
Haemulon striatum	0.00	6		
Pristigenys alta	0.00	6		
Antigonia capros	0.00	6		
Total	134.38		99.98	

PROJECT STATION:1157
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1219 Long W 7009
 start stop duration Purpose code: 3
 TIME : 17:50 18:20 30 (min) Area code : 7
 LOG : 260.10 261.60 1.50 GearCond.code: 1
 FDEPTH: 29 28 Validity code: 1
 DDEPTH: 29 28
 Towing dir: 270° Wire out: 150 m Speed: 30 kn*10

Sorted: 37 Kg Total catch: 37.00 CATCH/HOUR: 74.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Diodon holocanthus	17.10	34	23.11	
Calamus penna	14.50	46	19.59	259
Diodon hystrix	12.30	32	16.62	
Rhomboplites aurorubens	5.00	30	6.76	
Lactophrys trigonus	3.20	6	4.32	
Selar crumenophthalmus	2.30	10	3.11	
Acanthostracion quadricornis	1.80	14	2.43	
Lutjanus analis	1.60	2	2.03	
Sardinella aurita	1.50	18	2.43	
Trachinocephalus myops	1.40	12	1.89	
Pistularia tabacaria	1.20	6	1.62	
Eucinostomus argenteus	1.00	10	1.35	
Diplectrum formosum	1.00	16	1.35	
Seriola falcata	0.98	4	1.32	
Balistes vetula	0.96	2	1.30	
Syacium micrurum	0.90	8	1.22	
Sphyræna plicudilla	0.90	4	1.22	
Priacanthus arenatus	0.84	2	1.14	
Loligo plei	0.80	50	1.08	
Haemulon steindachneri	0.80	4	1.08	
Seriola rivoliana	0.70	2	0.95	
Chloroscombrus chrysurus	0.60	2	0.81	
Upeneus parvus	0.60	22	0.81	
Acanthostracion polygonos	0.60	2	0.81	
Holacanthus sp	0.50	2	0.68	
Dactylopterus volitans	0.40	2	0.54	
Bothus ocellatus	0.20	4	0.27	
Chilomycterus antillarum	0.20	2	0.27	
Monacanthus ciliatus	0.06	2	0.08	
Spherooides spengleri	0.06	2	0.08	
Total	74.00		100.00	

PROJECT STATION:1158
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1226 Long W 7023
 start stop duration Purpose code: 1
 TIME : 20:18 20:48 30 (min) Area code : 7
 LOG : 277.20 278.30 1.10 GearCond.code: 1
 FDEPTH: 76 76 Validity code: 1
 DDEPTH: 76 76
 Towing dir: 299° Wire out: 400 m Speed: 22 kn*10

Sorted: 21 Kg Total catch: 48.60 CATCH/HOUR: 97.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pristipomoides macrophthalmus	32.00	800	32.92	262
Lepophidium profundorum	12.40	968	12.76	
Serranus atrobranchus	9.20	500	9.47	
Upeneus parvus	5.20	196	5.35	
Saurida normani	4.40	44	4.53	
Synodus foetens	4.00	64	4.12	
Rhomboplites aurorubens	2.80	16	2.88	
Priacanthus arenatus	2.80	14	2.88	
Trachurus lathami	2.20	44	2.26	
Calamus cervigoni	2.00	28	2.06	
Penaeus brasiliensis	2.00	68	2.06	260
Narcine brasiliensis	1.80	40	1.85	
Brotula barata	1.80	4	1.85	
Plesionika sp	1.60	708	1.65	
Apogon sp	1.60	124	1.65	
Mustelus higmani	1.50	2	1.54	
Prionotus beani	1.20	100	1.23	
Paralichthys tropicus	1.00	4	1.03	
Penaeus subtilis	1.00	18	1.03	261
Loligo plei	0.90	16	0.93	
Eucinostomus argenteus	0.80	24	0.82	
Mullus auratus	0.80	12	0.82	
Prionotus stearnsi	0.80	68	0.82	
Hildebrandia sp.	0.60	20	0.62	
Ogcocephalus radiatus	0.60	4	0.62	
DYSOMMIDAE	0.40	8	0.41	
Ophichthus gomesi	0.40	4	0.41	
SCIARNIDAE	0.40	16	0.41	
Caulolatilus guppyi	0.40	8	0.41	
Hoplunnis sp	0.20	12	0.21	
Scorpaena brasiliensis	0.20	4	0.21	
Syacium gunteri	0.12	4	0.12	
Spherooides dorsalis	0.00	4	0.08	
Total	97.20		100.01	

PROJECT STATION:1159
 DATE: 3/12/88 GEAR TYPE: BT No:1 POSITION:Lat 1234 Long 7041
 start stop duration
 TIME : 23:05 23:35 30 (min) Purpose code: 1
 LOG : 298.00 299.00 1.00 Area code : 7
 FDRPTH: 75 75 GearCond.code: 1
 BDRPTH: 75 75 Validity code: 1
 Towing dir: 299° Wire out: 400 m Speed: 20 kn*10
 Sorted: 23 Kg Total catch: 31.90 CATCH/HOUR: 63.80

PROJECT STATION:11
 DATE: 4/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 114 Long W 702
 start stop duration
 TIME : 10:30 10:57 27 (min) Purpose code: 3
 LOG : 302.00 303.20 1.20 Area code : 7
 FDRPTH: 43 43 GearCond.code: 1
 BDRPTH: 43 43 Validity code: 1
 Towing dir: 125° Wire out: 250 m Speed: 25 kn*10
 Sorted: 10 Kg Total catch: 10.89 CATCH/HOUR: 24.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Haemulon boschmae	27.72	43.45	264
Pristipomoides macrophthalmus	5.60	8.78	
Calamus pennatula	4.60	7.21	
Rhomboplites aurorubens	3.60	5.64	
Penaeus brasiliensis	3.30	5.17	263
Mulloidichthys martinicus	2.60	4.08	
CRABS	2.40	3.76	
APOGONIDAE	2.20	3.57	
Loligo pealei	1.92	3.01	
Synodus sp	1.20	1.88	
Dactylopterus volitans	1.20	1.88	
Fistularia petimba	1.20	1.88	
Haemulon steindachneri	0.72	1.13	
Synodus intermedius	0.72	1.13	
Lepophidium profundorum	0.60	0.94	
Upeneus parvus	0.60	0.94	
Narcine brasiliensis	0.60	0.94	
Haemulon striatum	0.48	0.75	
Bellator sp	0.48	0.75	
Cyclopaeta chittendeni	0.36	0.56	
Sphoeroides dorsalis	0.36	0.56	
Loligo plei	0.24	0.38	
Syacium sp.	0.24	0.38	
Decapterus punctatus	0.24	0.38	
Lepophidium pheromystax	0.24	0.38	
Serranus atrobranchus	0.14	0.22	
Scorpaena agassizii	0.06	0.09	
Porichthys pauciradiatus	0.06	0.09	
Diplectrum radiale	0.04	0.06	
Saurida normani	0.00	0.00	
Hoplunnis sp	0.00	0.00	
Trachurus lathami	0.00	0.00	
Porichthys sp	0.00	0.00	
Total	63.80	99.99	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Paprilus paru	7.22	18	29.83
Rhomboplites aurorubens	4.22	22	17.44
Synodus foetens	3.44	36	14.21
Loligo pealei	2.09	342	11.94
Diplectrum bivittatum	1.00	58	4.13
Eucinostomus gula	0.89	56	3.68
Lutjanus analis	0.78	2	3.22
Loligo plei	0.67	107	2.77
SERRANIDAE	0.44	7	1.82
Trichurus lepturus	0.33	2	1.36
Chloroscombrus chrysurus	0.33	9	1.36
Prionotus punctatus	0.33	9	1.36
Penaeus notialis	0.22	7	0.91
Serranus dawageri	0.22	2	0.91
Synodus poeyi	0.22	62	0.91
Diplectrum radiale	0.22	2	0.91
Upeneus parvus	0.22	9	0.91
Porichthys sp	0.13	2	0.54
Anolyopsa quadricellata	0.11	2	0.45
Ctenosciaena gracilicirrus	0.11	4	0.45
Lonchopisthus sp	0.07	13	0.29
Serranus atrobranchus	0.04	2	0.17
Pristipomoides macrophthalmus	0.04	1	0.17
Syacium microrum	0.02	4	0.08
Synchiropus agassizii	0.00	2	
Saurida sp	0.00	4	
Prionotus stearnsi	0.00	2	
Total	24.16	99.82	

PROJECT STATION:1160
 DATE: 4/12/88 GEAR TYPE: BT No:1 POSITION:Lat 1215 Long 7046
 start stop duration
 TIME : 03:50 04:20 30 (min) Purpose code: 1
 LOG : 334.40 335.90 1.50 Area code : 7
 FDRPTH: 58 57 GearCond.code: 1
 BDRPTH: 50 57 Validity code: 1
 Towing dir: 270° Wire out: 300 m Speed: 30 kn*10
 Sorted: 16 Kg Total catch: 58.77 CATCH/HOUR: 117.54

PROJECT STATION:11
 DATE: 4/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 113 Long W 703
 start stop duration
 TIME : 13:50 14:20 30 (min) Purpose code: 3
 LOG : 412.70 414.60 1.90 Area code : 7
 FDRPTH: 35 35 GearCond.code: 1
 BDRPTH: 35 35 Validity code: 1
 Towing dir: 110° Wire out: 200 m Speed: 38 kn*10
 Sorted: 16 Kg Total catch: 16.24 CATCH/HOUR: 32.48

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Eucinostomus argenteus	21.00	17.87	
Calamus pennatula	10.50	8.93	
Lutjanus analis	10.00	8.51	
Pagrus pagrus	9.60	8.17	
Haemulon steindachneri	9.00	7.66	
Pristipomoides macrophthalmus	7.80	6.64	
Haemulon boschmae	5.40	4.59	265
Haemulon striatum	4.80	4.08	
Rhomboplites aurorubens	4.80	4.08	
Calamus penna	3.90	3.32	
Penaeus brasiliensis	3.60	3.06	266
Upeneus parvus	3.60	3.06	
Lutjanus synagris	3.40	2.89	
Haemulon aurolineatum	3.00	2.55	
Priacanthus aronatus	2.40	2.04	
Cyclopaeta fimbriata	2.40	2.04	
Lachnolaimus maximus	2.20	1.87	
Acanthostracion quadricornis	1.50	1.28	
Serranus phoebe	1.20	1.02	
Dactylopterus volitans	1.20	1.02	
APOGONIDAE	0.90	0.77	
Synodus sp	0.60	0.51	
Porichthys pauciradiatus	0.60	0.51	
Diplectrum radiale	0.60	0.51	
Acanthostracion polygonos	0.60	0.51	
Fistularia petimba	0.36	0.31	
Calamus cervigoni	0.36	0.31	
Lepophidium pheromystax	0.30	0.26	
Chilomyxus antillarum	0.30	0.26	
Sphoeroides dorsalis	0.24	0.20	
Decapterus punctatus	0.18	0.15	
Syacium sp.	0.18	0.15	
Chloroscombrus chrysurus	0.18	0.15	
Prionotus punctatus	0.18	0.15	
Synodus intermedius	0.18	0.15	
Narcine brasiliensis	0.18	0.15	
Sardinella aurita	0.12	0.10	
Mulloidichthys martinicus	0.06	0.05	
Pseudupeneus maculatus	0.06	0.05	
Symphurus plagiosa	0.06	0.05	
Lepophidium profundorum	0.00	0.00	
Total	117.54	99.98	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Chloroscombrus chrysurus	13.60	96	41.87
Loligo plei	6.60	1958	20.32
Lutjanus synagris	5.40	66	16.63
Eucinostomus gula	1.80	498	5.54
Sphyrna picudilla	1.60	14	4.93
Prionotus punctatus	1.40	8	4.31
Diplectrum radiale	1.00	40	3.08
Eucinostomus gula	0.50	20	1.54
Synodus foetens	0.20	4	0.62
Orthopristis ruber	0.10	2	0.31
Salar crumenophthalmus	0.08	2	0.25
Synodus sp	0.06	72	0.18
Syacium sp.	0.04	40	0.12
Diplectrum bivittatum	0.04	2	0.12
Penaeus notialis	0.02	2	0.06
Penaeus brasiliensis	0.02	4	0.06
Symphurus plagiosa	0.02	2	0.06
Loligunola brevis	0.00	2	
Upeneus parvus	0.00	2	
Total	32.48	100.00	

PROJECT STATION:116
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1123 Long W 7054
 start stop duration
 TIME : 07:20 07:28 8 (min) Purpose code: 3
 LOG : 459.50 460.00 0.20 Area code : 7
 FDRPTH: 24 24 GearCond.code: 8
 BDRPTH: 24 24 Validity code: 9
 Towing dir: 235° Wire out: 150 m Speed: 25 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
NO CATCH	0.00		
Total	0.00		

PROJECT STATION:1161
 DATE: 4/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1155 Long W 7045
 start stop duration
 TIME : 07:59 08:29 30 (min) Purpose code: 3
 LOG : 360.30 361.80 1.50 Area code : 7
 FDRPTH: 53 53 GearCond.code: 1
 BDRPTH: 53 53 Validity code: 1
 Towing dir: 125° Wire out: 300 m Speed: 30 kn*10
 Sorted: 41 Kg Total catch: 41.52 CATCH/HOUR: 83.04

PROJECT STATION:1165
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1122 Long W 7114
 start stop duration
 TIME : 11:14 11:44 30 (min) Purpose code: 3
 LOG : 492.70 494.30 1.60 Area code : 7
 FDRPTH: 13 14 GearCond.code: 1
 BDRPTH: 13 14 Validity code: 1
 Towing dir: 330° Wire out: 50 m Speed: 32 kn*10
 Sorted: 24 Kg Total catch: 45.47 CATCH/HOUR: 90.94

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Chloroscombrus chrysurus	27.00	32.51	267
Paprilus paru	17.80	21.44	
Scomberombrus cavalla	10.60	12.76	
Loligo plei	9.80	11.80	268
Caranx hippos	6.00	7.23	
Sphyrna lewini	5.00	6.02	
Synodus foetens	2.60	3.13	
Loligo pealei	1.60	1.93	
Upeneus parvus	1.00	1.20	
Synodus poeyi	0.30	0.36	
Priacanthus arenatus	0.30	0.36	
Penaeus subtilis	0.20	0.24	
Saurida sp	0.20	0.24	
Diplectrum bivittatum	0.20	0.24	
Salar crumenophthalmus	0.20	0.24	
Eucinostomus argenteus	0.20	0.24	
Prionotus punctatus	0.04	0.05	
Pristipomoides macrophthalmus	0.00	0.00	
Syacium gunteri	0.00	0.00	
Total	83.04	99.99	

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Opisthonema oglinum	34.50	698	37.94
Chloroscombrus chrysurus	30.00	288	32.99
Lutjanus synagris	10.40	22	11.44
Trichurus lepturus	6.30	28	6.93
Synodus foetens	2.60	14	2.86
Micropogonias furnieri	2.40	38	2.64
Mugil incilis	2.20	10	2.42
Scomberombrus brasiliensis	1.60	2	1.76
Diapterus rhombus	0.74	12	0.81
Aliturus scripta	0.14	4	0.15
Eucinostomus sp	0.06	16	0.07
Symphurus plagiosa	0.00	4	
Prionotus punctatus	0.00	4	
Total	90.94	100.01	

PROJECT STATION:1166
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1111 Long W 7116
 TIME : 13:04 13:34 30 (min) Purpose code: 3
 LOG : 507.30 508.70 1.40 Area code : 7
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 10 10 Validity code: 1
 Towing dir: 106° Wire out: 50 m Speed: 28 kn*10
 Sorted: 30 Kg Total catch: 54.80 CATCH/HOUR: 109.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	53.10 532	48.45	
Opisthonema oglinum	28.50 562	26.00	
Elops saurus	13.00 12	11.06	
Scomberomorus brasiliensis	6.00 8	5.47	
Chirocentron bleekermanus	4.80 2608	4.38	
Trichiurus lepturus	4.04 10	3.69	
Penaeus notialis	0.06 4	0.05	
Echeneis naucratia	0.02 4	0.02	
Squilla sp	0.02 4	0.02	
Xiphopenaus kroyeri	0.02 4	0.02	
Total	109.56	99.96	

PROJECT STATION:1167
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1116 Long W 7128
 TIME : 15:53 16:23 30 (min) Purpose code: 3
 LOG : 533.40 534.80 1.40 Area code : 7
 FDEPTH: 13 13 GearCond.code: 1
 BDEPTH: 13 13 Validity code: 1
 Towing dir: 290° Wire out: 50 m Speed: 28 kn*10
 Sorted: 30 Kg Total catch: 202.10 CATCH/HOUR: 404.20

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	212.00 2084	52.45	276
Opisthonema oglinum	58.00 3508	14.35	277
Dasyatis guttata	50.00 8	12.37	
Dasyatis americana	34.00 6	8.41	
Micropogonias furnieri	10.80 24	2.67	
Trachinotus falcatus	10.00 10	2.47	
Rachycentron canadus	5.00 10	1.24	
Eucinostomus sp	5.00 370	1.24	
Lolliguncula brevis	5.00 1310	1.24	
Synodus foetens	4.00 10	0.99	
Sphoeroides dorsalis	4.00 10	0.99	
Trichiurus lepturus	4.00 10	0.99	
Scomberomorus cavalla	1.60 2	0.40	
Penaeus notialis	0.50 30	0.12	
Trinectes inscriptus	0.30 10	0.07	
Symphurus plagiosa	0.00 10		
Total	404.20	100.00	

PROJECT STATION:1168
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1124 Long W 7137
 TIME : 17:53 18:23 30 (min) Purpose code: 3
 LOG : 548.60 550.00 1.40 Area code : 7
 FDEPTH: 19 19 GearCond.code: 1
 BDEPTH: 19 19 Validity code: 1
 Towing dir: 250° Wire out: 75 m Speed: 28 kn*10
 Sorted: 10 Kg Total catch: 10.00 CATCH/HOUR: 20.16

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Scomberomorus brasiliensis	6.10 8	30.26	
Sphyræna guachancho	5.70 16	28.27	
Trichiurus lepturus	4.80 22	23.81	
Micropogonias furnieri	1.10 2	5.46	
Prionotus punctatus	1.00 4	4.96	
Opisthonema oglinum	0.60 6	2.98	
Lolliguncula brevis	0.30 98	1.49	
Penaeus subtilis	0.20 6	0.99	
Chloroscombrus chrysurus	0.20 26	0.99	
Eucinostomus argenteus	0.10 2	0.50	
Lutjanus synagris	0.06 8	0.30	
Total	20.16	100.00	

PROJECT STATION:1169
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1113 Long W 7145
 TIME : 19:50 20:20 30 (min) Purpose code: 1
 LOG : 562.90 564.50 1.60 Area code : 7
 FDEPTH: 14 14 GearCond.code: 1
 BDEPTH: 14 14 Validity code: 1
 Towing dir: 270° Wire out: 50 m Speed: 32 kn*10
 Sorted: 6 Kg Total catch: 53.65 CATCH/HOUR: 107.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Micropogonias furnieri	26.80 170	24.98	279
Cathorops sp	21.20 120	19.76	
Diapterus rhombus	16.00 672	14.91	
Opisthonema oglinum	13.60 920	12.67	278
Eucinostomus sp	6.40 776	5.96	
Chaetodipterus faber	2.50 2	2.33	
Chloroscombrus chrysurus	2.50 56	2.33	
Chirocentron bleekermanus	2.40 1256	2.24	
Elops saurus	1.80 2	1.68	
Cynoscion leichardus	1.80 4	1.68	
Lolliguncula brevis	1.60 408	1.49	
Macraron ancyllodon	1.40 4	1.30	
Cynoscion acoupa	1.40 2	1.30	
Trachypenaeus constrictus	1.20 2560	1.12	
Pomadourys corvinaeformis	1.20 272	1.12	
Anchoa filifera	1.20 976	1.12	
Trichiurus lepturus	1.00 2	0.93	
Penaeus subtilis	0.56 96	0.52	
Mugil sp	0.50 4	0.47	
Synodus foetens	0.40 2	0.37	
Sphyræna guachancho	0.40 16	0.37	
Caranx hippos	0.36 2	0.34	
Oligoplites saurus	0.30 2	0.28	
Penaeus schmitti	0.24 16	0.22	
Prionotus punctatus	0.24 56	0.22	
Sphoeroides dorsalis	0.20 4	0.19	
Lutjanus synagris	0.10 2	0.09	
Anchoa hepsetus	0.00 8		
Total	107.30	99.99	

PROJECT STATION:1170
 DATE: 5/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1135 Long W 7145
 TIME : 22:48 23:18 30 (min) Purpose code: 1
 LOG : 588.70 590.00 1.30 Area code : 7
 FDEPTH: 13 16 GearCond.code: 1
 BDEPTH: 13 16 Validity code: 1
 Towing dir: 106° Wire out: 50 m Speed: 26 kn*10
 Sorted: 25 Kg Total catch: 50.94 CATCH/HOUR: 101.88

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Chloroscombrus chrysurus	41.20 276	40.44	200
Elops saurus	12.80 24	12.56	
Lutjanus synagris	11.00 56	10.80	
Eucinostomus sp	7.60 804	7.46	
Trichiurus lepturus	6.00 16	5.89	
Prionotus punctatus	5.60 28	5.50	
Sphyræna guachancho	4.00 4	3.93	
Micropogonias furnieri	3.00 8	2.94	
Cynoscion leichardus	2.80 4	2.75	
Diapterus rhombus	2.00 32	1.95	
Opisthonema oglinum	2.00 52	1.96	
Anchoa filifera	0.80 448	0.79	
Trachypenaeus constrictus	0.80 1824	0.79	
Chaetodipterus faber	0.80 4	0.79	
Lolliguncula brevis	0.40 168	0.39	
Acanthostracion quadricornis	0.40 4	0.39	
Synodus foetens	0.32 12	0.31	
Conodon nobilis	0.20 16	0.20	
Anchoa sp	0.16 320	0.16	
Porichthys pauciradiatus	0.00 64		
Chirocentron bleekermanus	0.00 64		
Total	101.88	100.00	

PROJECT STATION:1171
 DATE: 6/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1129 Long W 7127
 TIME : 01:17 01:47 30 (min) Purpose code: 3
 LOG : 609.10 610.00 0.90 Area code : 7
 FDEPTH: 18 18 GearCond.code: 1
 BDEPTH: 18 18 Validity code: 1
 Towing dir: 220° Wire out: 100 m Speed: 18 kn*10
 Sorted: 15 Kg Total catch: 23.05 CATCH/HOUR: 46.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Opisthonema oglinum	24.90 238	54.01	281
Dasyatis americana	7.50 12	16.27	
Mugil icellus	4.50 16	9.76	
Gymnarchus nudus	1.80 34	3.90	
Sphoeroides dorsalis	1.44 30	3.12	
Elops saurus	1.34 4	2.91	
Trichiurus lepturus	0.90 4	1.95	
Synodus foetens	0.90 16	1.95	
Chloroscombrus chrysurus	0.90 28	1.95	
Lutjanus synagris	0.74 10	1.61	
Peprilus paru	0.60 4	1.30	
Micropogonias furnieri	0.30 10	0.65	
Penaeus notialis	0.26 14	0.56	282
Eucinostomus sp	0.02 4	0.04	
Syacium sp	0.00 4		
Symphurus plagiosa	0.00 6		
Total	46.10	99.98	

PROJECT STATION:1172
 DATE: 6/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1141 Long W 7117
 TIME : 04:30 05:00 30 (min) Purpose code: 3
 LOG : 635.00 636.20 1.20 Area code : 7
 FDEPTH: 19 19 GearCond.code: 1
 BDEPTH: 19 19 Validity code: 1
 Towing dir: 210° Wire out: 50 m Speed: 24 kn*10
 Sorted: 30 Kg Total catch: 76.67 CATCH/HOUR: 153.34

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Opisthonema oglinum	82.50 570	53.80	284
Chloroscombrus chrysurus	24.00 220	15.65	283
Lutjanus synagris	12.50 26	8.15	
Micropogonias furnieri	11.24 36	7.33	
Scomberomorus brasiliensis	9.00 6	5.87	
Trachypenaeus constrictus	8.50 6	5.54	
Dasyatis americana	3.00 4	1.96	
Trichiurus lepturus	1.00 10	0.65	
Synodus foetens	0.74 16	0.48	
Diapterus rhombus	0.30 10	0.20	
Peprilus paru	0.14 6	0.09	
Penaeus notialis	0.10 30	0.07	
Porichthys pauciradiatus	0.10 36	0.07	
Ctenosciæna graciliorrhus	0.10 6	0.07	
Prionotus punctatus	0.04 10	0.03	
Eucinostomus gula	0.04 10	0.03	
Total	153.30	99.99	

PROJECT STATION:1173
 DATE: 6/12/88 GEAR TYPE: PT No:2 POSITION:Lat N 1143 Long W 7022
 TIME : 23:37 00:22 45 (min) Purpose code: 1
 LOG : 741.10 743.10 2.00 Area code : 7
 FDEPTH: 10 13 GearCond.code: 3
 BDEPTH: 42 42 Validity code: 3
 Towing dir: 292° Wire out: 50 m Speed: 25 kn*10
 Sorted: 32 Kg Total catch: 79.98 CATCH/HOUR: 106.64

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Opisthonema oglinum	74.67 803	70.02	285
Ruthynnus alletteratus	20.00 4	18.75	
Anchoa hepsetus	5.33 928	5.00	287
Sardinella aurita	4.53 59	4.25	286
Sphyræna guachancho	1.87 8	1.75	
Sardinella aurita	0.13 32	0.12	288
Chloroscombrus chrysurus	0.05 5	0.05	
Decapterus punctatus	0.05 16	0.05	
Fish small non. comm.	0.00 27		
Total	106.63	99.99	

PROJECT STATION:1174
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1149 Long W 7023
 TIME : 01:53 02:23 30 (min) Purpose code: 3
 LOG : 756.30 757.60 1.30 Area code : 7
 FDEPTH: 46 42 GearCond.code: 1
 DDEPTH: 46 42 Validity code: 1
 Towing dir: 62° Wire out: 250 m Speed: 26 kn*10
 Sorted: 4 Kg Total catch: 44.30 CATCH/HOUR: 88.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Synodus foetens	22.70	25.71	
Lepidichthys profundorum	17.40	19.64	
Eucinostomus argenteus	13.40	15.12	
Gymnothorax ocellatus	6.70	7.56	
Chloroscombrus chrysurus	6.00	6.77	289
Saurida normani	5.00	5.64	
Porichthys pauciradiatus	2.68	3.02	
Priacanthus arenatus	2.00	2.26	
Trachurus lathami	1.34	1.51	
Prionotus punctatus	1.34	1.51	
Diplectrum radiale	1.34	1.51	
Anchoa hepsetus	1.34	1.51	
Eucinostomus sp	1.34	1.51	
Upeneus parvus	1.34	1.51	
Sphyraena picudilla	1.00	1.13	
Penaeus notialis	1.00	1.13	290
Sphyraena guachancho	1.00	1.13	
Serranus atrobranchius	0.40	0.45	
Penaeus brasiliensis	0.40	0.45	291
Lutjanus synagris	0.40	0.45	
Scomberomorus cavalla	0.40	0.45	
Loligo plei	0.00	0.00	
CRABS	0.00	0.00	
Hollmannia sp.	0.00	0.00	
Hildebrandia sp.	0.00	0.00	
Total	88.60	99.97	

PROJECT STATION:1175
 DATE: 7/12/88 start stop duration GEAR TYPE: FT No:2 POSITION:Lat N 1204 Long W 7019
 TIME : 05:03 05:28 25 (min) Purpose code: 1
 LOG : 781.30 782.30 1.00 Area code : 7
 FDEPTH: 20 23 GearCond.code: 1
 DDEPTH: 42 45 Validity code: 1
 Towing dir: 240° Wire out: 50 m Speed: 24 kn*10
 Sorted: 22 Kg Total catch: 22.30 CATCH/HOUR: 53.52

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Opisthonema oglinum	23.76	44.39	292
Sardinella aurita	19.44	36.32	293
Chloroscombrus chrysurus	3.84	7.17	
Saurida caribbaea	1.92	3.59	
Sphyraena guachancho	1.20	2.24	
Sphyraena picudilla	1.20	2.24	
Trachurus lathami	0.96	1.79	
Upeneus parvus	0.96	1.79	
Loligo plei	0.07	0.13	
Anchoa hepsetus	0.05	0.09	
Eucinostomus argenteus	0.05	0.09	
Porichthys sp	0.05	0.09	
Priacanthus arenatus	0.02	0.04	
Serranus phoebe	0.00	0.00	
Total	53.52	99.97	

PROJECT STATION:1176
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1208 Long W 7020
 TIME : 06:58 07:28 30 (min) Purpose code: 3
 LOG : 794.70 796.10 1.40 Area code : 7
 FDEPTH: 51 50 GearCond.code: 1
 DDEPTH: 51 50 Validity code: 1
 Towing dir: 115° Wire out: 300 m Speed: 28 kn*10
 Sorted: 25 Kg Total catch: 37.14 CATCH/HOUR: 74.28

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	16.56	22.29	
Trachurus lathami	12.48	16.80	296
Chloroscombrus chrysurus	7.44	10.02	
Pristipomoides macrophthalmus	6.72	9.05	
Eucinostomus argenteus	6.36	8.56	
Peprilus paru	5.40	7.27	
Sardinella aurita	3.72	5.01	294
Loligo plei	3.60	4.85	
Rhomboplites aurorubens	2.50	3.37	
Synodus foetens	1.92	2.58	
Lutjanus synagris	1.90	2.56	
Penaeus brasiliensis	1.20	1.62	295
Sphyraena picudilla	1.00	1.35	
Sphyraena guachancho	1.00	1.35	
Loligo plei	0.72	0.97	
Orthopristis ruber	0.50	0.67	
Priacanthus arenatus	0.30	0.40	
Porichthys bathoiketes	0.24	0.32	
Selar crumenophthalmus	0.24	0.32	
Diplectrum bivittatum	0.24	0.32	
Epinephelus flavolimbatus	0.08	0.11	
Syacium sp.	0.04	0.05	
Halichoeres caudalis	0.04	0.05	
Penaeus notialis	0.04	0.05	
Cyclopsacta fimbriata	0.02	0.03	
Etropus sp	0.00	0.00	
Serranus atrobranchius	0.00	0.00	
Total	74.28	99.97	

PROJECT STATION:1177
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 120 Long W 703
 TIME : 09:14 09:44 30 (min) Purpose code: 3
 LOG : 813.50 815.00 1.50 Area code : 7
 FDEPTH: 67 67 GearCond.code: 1
 DDEPTH: 67 67 Validity code: 1
 Towing dir: 100° Wire out: 350 m Speed: 30 kn*10
 Sorted: 15 Kg Total catch: 15.37 CATCH/HOUR: 30.74

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Upeneus parvus	8.70	28.30	
Eucinostomus argenteus	5.60	18.22	
Eucinostomus arenatus	3.86	12.56	
SYNODONTIDAE	3.10	10.08	
Loligo plei	3.00	9.76	
Pristipomoides macrophthalmus	1.70	5.53	
Prionotus punctatus	1.30	4.23	
Sphyraena picudilla	1.00	3.25	
Prionotus stearnsi	0.44	1.43	
Trachurus lathami	0.42	1.37	
Ogocephalus parvus	0.30	0.98	
Epinephelus flavolimbatus	0.30	0.98	
Calamus carygoni	0.30	0.98	
Penaeus notialis	0.20	0.65	
Serranus atrobranchius	0.18	0.59	
Penaeus brasiliensis	0.02	0.07	
Etrunus teres	0.02	0.07	
Diplectrum bivittatum	0.00	0.00	
Total	30.74	100.03	

PROJECT STATION:1178
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1054 Long W 7040
 TIME : 11:32 12:02 30 (min) Purpose code: 3
 LOG : 832.70 834.10 1.40 Area code : 7
 FDEPTH: 54 54 GearCond.code: 1
 DDEPTH: 54 54 Validity code: 1
 Towing dir: 230° Wire out: 300 m Speed: 28 kn*10
 Sorted: 4 Kg Total catch: 53.37 CATCH/HOUR: 106.74

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Priacanthus arenatus	50.20	47.03	299
BIVALVES	11.88	11.13	
Lutjanus griseus	9.60	8.99	
Lutjanus synagris	6.90	6.46	
Loligo plei	5.40	5.06	
Scomberomorus brasiliensis	4.30	4.03	
Synodus sp	3.78	3.54	
Prionotus punctatus	3.20	3.00	
Loligo plei	3.00	2.81	297
Loligo plei	2.40	2.25	298
Upeneus parvus	1.62	1.52	
Saurida sp	1.08	1.01	
Paralichthys tropicus	1.00	0.94	
Diplectrum bivittatum	0.84	0.81	
Serranus atrobranchius	0.44	0.41	
Pristipomoides macrophthalmus	0.38	0.36	
Syacium gunteri	0.32	0.30	
Rhomboplites aurorubens	0.30	0.28	
Eucinostomus argenteus	0.16	0.15	
Acanthostracion quadricornis	0.10	0.09	
Chilomycterus antillarum	0.00	0.00	
Prionotus punctatus	0.06	0.06	
Rhomboplites aurorubens	0.00	0.00	
Trachypenaeus sp	0.00	0.00	
Prionotus stearnsi	0.00	0.00	
Total	106.74	100.00	

PROJECT STATION:1179
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1144 Long W 7053
 TIME : 13:50 14:20 30 (min) Purpose code: 3
 LOG : 850.90 852.30 1.40 Area code : 7
 FDEPTH: 27 27 GearCond.code: 1
 DDEPTH: 27 27 Validity code: 1
 Towing dir: 233° Wire out: 150 m Speed: 28 kn*10
 Sorted: 26 Kg Total catch: 193.22 CATCH/HOUR: 386.44

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	308.40	79.81	301
Chloroscombrus chrysurus	37.40	9.68	300
Scomberomorus cavalla	17.00	4.40	
Lutjanus synagris	6.00	1.55	
Gymnothorax ocellatus	3.00	0.78	
Synodus sp	2.40	0.62	
Chirocentrodon bleekeriianus	2.00	0.52	
Sphyraena picudilla	2.00	0.52	
Cynoscion leiarchus	1.60	0.41	
Lolliguncula brevis	1.20	0.31	
Sphyraena guachancho	1.20	0.31	
Microponias furnieri	1.00	0.26	
Loligo plei	0.80	0.21	
Scomberomorus cavalla	0.60	0.16	
Prionotus punctatus	0.60	0.16	
Selene vomer	0.40	0.10	
Diplectrum bivittatum	0.30	0.08	
Alectis ciliaris	0.20	0.05	
Penaeus notialis	0.20	0.05	
Hildebrandia sp.	0.06	0.02	
Lepidichthys profundorum	0.04	0.01	
Squilla empusa	0.04	0.01	
Total	386.44	100.02	

PROJECT STATION:1180
 DATE: 7/12/88 start stop duration GEAR TYPE: BT No:1 POSITION:Lat N 1147 Long W 7110
 TIME : 16:01 16:31 30 (min) Purpose code: 3
 LOG : 868.50 870.10 1.60 Area code : 8
 FDEPTH: 14 15 GearCond.code: 1
 DDEPTH: 14 15 Validity code: 1
 Towing dir: 310° Wire out: 50 m Speed: 32 kn*10
 Sorted: 21 Kg Total catch: 21.70 CATCH/HOUR: 43.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trichiurus lepturus	28.00	64.52	
Scomberomorus brasiliensis	10.00	23.04	
Mustelus higmani	2.00	4.61	
Chloroscombrus chrysurus	2.00	4.61	
Opisthonema oglinum	0.60	1.38	
Anchoa lamprotaenia	0.40	0.92	302
Sphyraena guachancho	0.40	0.92	
Sardinella aurita	0.00	0.00	
Diapterus rhombus	0.00	0.00	
Total	43.40	100.00	

PROJECT STATION: 1181
 DATE: 7/12/88 GEAR TYPE: PT No:4 POSITION: Lat N 1154 Long W 1708
 TIME : 18:00 start stop duration 15 (min) Purpose code: 1
 LOG : 882.50 883.20 0.70 Area code : 8
 FDEPTH: 0 GearCond.code: 1
 BDEPTH: 13 13 Validity code: 4
 Towing dir: 240° Wire out: 50 m Speed: 28 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Anchoa sp	0.00		303
Total			

PROJECT STATION: 1182
 DATE: 7/12/88 GEAR TYPE: BT No:1 POSITION: Lat N 1200 Long W 7104
 TIME : 19:37 start stop duration 23 (min) Purpose code: 1
 LOG : 891.70 892.70 1.00 Area code : 8
 FDEPTH: 11 12 GearCond.code: 1
 BDEPTH: 11 12 Validity code: 4
 Towing dir: 90° Wire out: 50 m Speed: 25 kn*10
 Sorted: Kg Total catch: 138.04 CATCH/HOUR: 360.10

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Chirocentrodon bloekerianus	134.82	50727	37.44
Arius grandicaissis	75.43	60	21.22
Rhinoptera bonasus	26.09	8	7.25
Dasyatis americana	26.09	5	7.25
Anchoa filifera	22.96	25085	6.30
Sphyrna tudes	17.09	5	4.75
Cynoscion virescens	7.43	3	2.06
Lycengraulis grossidens	7.30	151	2.03
Microgogonias furnieri	7.17	16	1.99
Lolliguncula brevis	6.26	584	1.74
Shrimps, larvae	6.26		1.74
Opisthonema oglinum	6.26	1795	1.74
Scorpaenomorua brasiliensis	4.30	5	1.19
Opisthonema oglinum	2.61	21	0.72
Sardinella aurita	2.09	1795	0.58
Penaeus notialis	1.17	104	0.32
Anchoa spinifer	1.04	99	0.29
Diapterus rhombeus	1.04	5	0.29
Mugil curema	0.91	3	0.25
Microgogonias furnieri	0.89	16	0.25
Pellona harroweri	0.09	52	0.25
Porichthys bathoiketos	0.42	710	0.12
Chloroscombrus chrysurus	0.26	10	0.07
Diapterus rhombeus	0.21	10	0.06
Peprilus paru	0.10	5	0.03
Syngnathus diomedianus	0.00	5	
Total	360.09		100.01

PROJECT STATION: 1183
 DATE: 7/12/88 GEAR TYPE: BT No:1 POSITION: Lat N 1209 Long W 7058
 TIME : 21:53 start stop duration 30 (min) Purpose code: 1
 LOG : 909.60 911.30 1.70 Area code : 8
 FDEPTH: 50 46 GearCond.code: 1
 BDEPTH: 50 46 Validity code: 4
 Towing dir: 270° Wire out: 300 m Speed: 34 kn*10
 Sorted: 8 Kg Total catch: 31.62 CATCH/HOUR: 63.24

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Lepophidium profundorum	15.00	444	23.72
Lepophidium profundorum	8.00	1216	12.65
Trachypenaes sp	7.52	856	11.89
Synodus foetens	6.90	36	10.91
Penaeus notialis	6.80	184	10.75
Chloroscombrus chrysurus	4.80	116	7.59
Prionotus punctatus	4.02	36	6.36
Penaeus subtilis	2.40	258	3.80
Diplectrum bivittatum	1.60	192	2.53
Synodus sp	1.28	464	2.02
Hildebrandia sp.	0.80	16	1.27
Cyclosetta chittendeni	0.60	2	0.95
Lutjanus synagris	0.60	2	0.95
Porichthys bathoiketos	0.50	44	0.79
Prisacanthus arenatus	0.40	2	0.63
Epinephelus flavolimbatus	0.40	6	0.63
Sphyrna piouidilla	0.36	4	0.57
Loligo plei	0.32	48	0.51
Macrondon ancyliodon	0.30	2	0.47
Peprilus paru	0.20	2	0.32
Sycaium sp.	0.16	32	0.25
Porichthys pauciradiatus	0.16	128	0.25
Lutjanus purpureus	0.12	24	0.19
Pristipomoides macrophthalmus	0.00	48	
Scorpaena agassizi	0.00	16	
Serranus atrobranchus	0.00	48	
Lutjanus purpureus	0.00	16	
Prionotus stearnsi	0.00	16	
Bregmaceros sp.	0.00	80	
Prionotus punctatus	0.00	16	
Lonchopisthus sp	0.00	32	
Total	63.24		100.00

PROJECT STATION: 1184
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION: Lat N 1218 Long W 7106
 TIME : 00:41 start stop duration 30 (min) Purpose code: 1
 LOG : 932.40 933.80 1.40 Area code : 8
 FDEPTH: 31 24 GearCond.code: 1
 BDEPTH: 31 24 Validity code: 4
 Towing dir: 275° Wire out: 150 m Speed: 28 kn*10
 Sorted: 29 Kg Total catch: 248.10 CATCH/HOUR: 496.20

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Anisotremus virginicus	166.40	560	33.53
Eucinostomus argenteus	64.00	992	12.90
Selene vomer	59.20	144	11.93
Chloroscombrus chrysurus	40.00	192	8.06
Haemulon steindachneri	35.20	224	7.09
Polydactylus virginicus	24.00	120	4.84
Lutjanus synagris	22.00	60	4.43
Chaetodipterus faber	16.00	48	3.22
Haistetes ericoides	16.00	48	3.22
Microgogonias furnieri	11.20	32	2.26
Acanthostracion quadricornis	8.00	80	1.61
Dactylopterus volitans	8.00	80	1.61
Sycaium papillosum	6.40	112	1.29
Prisacanthus arenatus	5.00	18	1.01
Orthopristis ruber	4.80	16	0.97
Lutjanus griseus	4.00	8	0.81
Prionotus punctatus	3.20	32	0.64
Rhomboplites aurorubens	2.00	24	0.40
Diplectrum radiale	0.32	160	0.06
Lepophidium profundorum	0.32	64	0.06
Trachinocephalus myops	0.16	32	0.03
Porichthys pauciradiatus	0.00	16	
Paralichthys tropicus	0.00	16	
Total	496.20		99.97

PROJECT STATION: 1185
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION: Lat N 1227 Long W 7104
 TIME : 02:57 start stop duration 30 (min) Purpose code: 1
 LOG : 949.00 950.10 1.10 Area code : 8
 FDEPTH: 61 60 GearCond.code: 1
 BDEPTH: 61 60 Validity code: 4
 Towing dir: 220° Wire out: 300 m Speed: 22 kn*10
 Sorted: 17 Kg Total catch: 60.95 CATCH/HOUR: 137.90

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Pristipomoides macrophthalmus	32.00	3426	23.21
Eucinostomus argenteus	32.00	1066	23.21
Pecten sp	22.50	1066	16.32
Lepophidium profundorum	11.00	1092	7.98
Panulirus argus	9.00	6	6.53
Synodus foetens	5.00	500	3.63
Calamus pennatula	3.00	10	2.18
Calamus cervigoni	3.00	30	2.18
Serranus atrobranchus	3.00	360	2.18
Ancylosetta quadricellata	2.50	10	1.61
Hoplunnis diomedianus	2.00	120	1.45
Acanthostracion quadricornis	2.00	20	1.45
Upeneus parvus	2.00	110	1.45
Rhomboplites aurorubens	1.50	226	1.09
Penaeus notialis	1.00	56	0.73
Prionotus punctatus	1.00	6	0.73
Diplectrum radiale	1.00	50	0.73
Apogon sp	1.00	280	0.73
Prionotus stearnsi	1.00	40	0.73
Porichthys pauciradiatus	1.00	110	0.73
Sphoeroides dorsalis	0.30	20	0.22
Sycaium sp.	0.30	90	0.22
Haemulon steindachneri	0.30	10	0.22
Narcine brasiliensis	0.20	10	0.15
Penaeus brasiliensis	0.10	30	0.07
Scorpaena brasiliensis	0.10	20	0.07
Prionotus roseus	0.10	30	0.07
Total	137.90		100.07

PROJECT STATION: 1186
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION: Lat N 1234 Long W 7117
 TIME : 07:31 start stop duration 30 (min) Purpose code: 3
 LOG : 979.10 980.30 1.20 Area code : 8
 FDEPTH: 69 68 GearCond.code: 1
 BDEPTH: 69 68 Validity code: 4
 Towing dir: 230° Wire out: 350 m Speed: 25 kn*10
 Sorted: 49 Kg Total catch: 49.21 CATCH/HOUR: 98.42

SPECIES	CATCH/HOUR weight	% OF TOT. C numbers	SAMP.NO.
Lutjanus analis	36.00	10	37.39
Upeneus parvus	12.00	666	13.01
Epinephelus morio	10.10	2	10.26
Loligo plei	6.90	614	7.01
Calamus pennatula	4.70	10	4.78
Eucinostomus argenteus	4.50	92	4.57
Pagrus pagrus	3.84	8	3.90
Lutjanus synagris	3.50	6	3.56
Pristipomoides macrophthalmus	2.90	214	2.95
Haemulon melanurum	2.00	4	2.03
Prisacanthus arenatus	1.78	6	1.81
Lutjanus purpureus	1.70	2	1.73
Fistularia potimba	1.60	10	1.63
Rhomboplites aurorubens	1.50	20	1.52
Saurida normani	1.40	16	1.42
Synodus sp	0.70	114	0.71
Sycaium micurum	0.50	28	0.51
Diplectrum bivittatum	0.50	20	0.51
Decapterus punctatus	0.30	20	0.30
Serranus atrobranchus	0.20	16	0.20
Lutjanus vivanus	0.10	2	0.10
Prionotus beani	0.04	4	0.04
Total	90.36		99.94

PROJECT STATION:1187
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1223 Long W 7118
 start stop duration
 TIME : 10:07 10:37 30 (min) Purpose code: 3
 LOG : 994.60 995.20 0.60 Area code : 8
 FDEPTH: 31 33 GearCond.code: 1
 BDEPTH: 31 33 Validity code: 1
 Towing dir: 275° Wire out: 150 m Speed: 12 kn*10
 Sorted: 24 Kg Total catch: 103.60 CATCH/HOUR: 207.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	105.00	1986	50.68	312
Selene setipinna	33.00	120	15.93	
Lutjanus synagris	18.00	44	8.69	
Opisthonema oglinum	17.00	160	0.59	311
Peprilus paru	5.40	10	2.61	
Lagocephalus laevis	5.40	8	2.61	
Rhizoprionodon porosus	4.20	2	2.03	
Scomberomorus cavalla	4.20	2	2.03	
Priacanthus arenatus	3.10	8	1.50	
Rhizoprionodon lalandii	3.00	2	1.45	
Loligo plei	2.40	798	1.16	
Microgobius furnieri	1.80	6	0.87	
Caranx crysos	1.20	2	0.58	
Diapterus rhombeus	1.10	2	0.53	
Sphyræna guachancho	0.90	8	0.43	
Uraspis secundata	0.70	2	0.34	
Eucinostomus argenteus	0.00	6		
Total	207.20		100.03	

PROJECT STATION:1188
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1229 Long W 7127
 start stop duration
 TIME : 11:15 11:45 30 (min) Purpose code: 3
 LOG : 999.60 1000.30 0.70 Area code : 8
 FDEPTH: 46 48 GearCond.code: 1
 BDEPTH: 46 48 Validity code: 1
 Towing dir: 300° Wire out: 250 m Speed: 14 kn*10
 Sorted: 35 Kg Total catch: 35.48 CATCH/HOUR: 70.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Peprilus paru	21.00	50	29.59	
Lutjanus synagris	16.40	36	23.11	
Uponesus parvus	10.00	230	14.09	313
Loligo plei	5.00	840	8.46	315
Chloroscombrus chrysurus	6.00	94	8.46	
Priacanthus arenatus	4.00	12	5.64	
Dasyatis americana	2.00	2	2.82	
Caranx crysos	2.00	2	2.82	
Sphyræna picudilla	2.00	12	2.82	
Lagocephalus laevis	0.60	2	0.85	
Prionotus punctatus	0.40	2	0.56	
Trichiurus lepturus	0.20	2	0.28	
Diplectrum radiale	0.20	10	0.28	
Opisthonema oglinum	0.10	2	0.14	
Panaxus notialis	0.06	4	0.08	
Total	70.96		100.00	

PROJECT STATION:1189
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1228 Long W 7147
 start stop duration
 TIME : 14:58 15:28 30 (min) Purpose code: 3
 LOG : 1026.90 1028.20 1.30 Area code : 8
 FDEPTH: 47 54 GearCond.code: 1
 BDEPTH: 47 54 Validity code: 1
 Towing dir: 230° Wire out: 250 m Speed: 26 kn*10
 Sorted: 30 Kg Total catch: 125.45 CATCH/HOUR: 250.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	57.20	14	22.80	318
Eucinostomus argenteus	42.50	1190	16.94	
Loligo plei	30.50	1200	12.16	319
Uponesus parvus	27.50	962	10.96	
Lutjanus synagris	21.00	34	8.37	317
Trachurus lathami	15.00	690	5.98	321
Calamus pennatula	15.00	66	5.98	
Mycteroperca bonaci	12.20	2	4.86	
Haemulon aurolineatum	7.50	170	2.99	
Panulirus argus	5.00	2	1.99	
Pristipomoides macrophthalmus	4.00	470	1.59	
Haemulon boschmae	3.50	336	1.39	
Paralichthys tropicus	2.50	2	1.00	
Calamus penna	2.20	2	0.88	
Rhomboplites aurorubens	1.50	206	0.60	320
Synodus sp	1.50	206	0.60	
Saurida sp	1.50	86	0.60	
Diplectrum radiale	0.30	20	0.12	
Penaeus notialis	0.20	16	0.08	
Decapterus punctatus	0.20	36	0.08	
Lutjanus vivanus	0.10	6	0.04	
Total	250.90		100.01	

PROJECT STATION:111
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1222 Long W 7156
 start stop duration
 TIME : 17:33 18:03 30 (min) Purpose code: 3
 LOG : 1040.10 1049.50 1.40 Area code : 8
 FDEPTH: 50 52 GearCond.code: 1
 BDEPTH: 50 52 Validity code: 1
 Towing dir: 245° Wire out: 250 m Speed: 28 kn*10
 Sorted: 13 Kg Total catch: 124.24 CATCH/HOUR: 248.48

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	68.00	288	27.37	322
Eucinostomus argenteus	32.70	714	13.16	
Calamus pennatula	26.00	94	10.46	
Lutjanus purpureus	23.20	50	9.34	323
Lutjanus analis	11.60	4	4.67	
Uponesus parvus	11.10	486	4.47	
Epinephelus morio	8.60	2	3.46	
Rhizoprionodon porosus	7.00	2	2.82	
Loligo plei	6.90	912	2.78	326
Sardinella aurita	6.60	624	2.66	325
Decapterus punctatus	6.30	504	2.54	324
Rhomboplites aurorubens	4.00	354	1.93	
Mycteroperca bonaci	4.00	2	1.93	
Haemulon boschmae	4.20	630	1.69	
Paralichthys tropicus	3.40	4	1.37	
Scomberomorus cavalla	3.40	4	1.37	
Mustelus norrisi	3.30	2	1.33	
Rhomboplites aurorubens	2.70	16	1.09	
Priacanthus arenatus	2.50	8	1.01	
Sphyræna picudilla	2.10	18	0.85	
Pristipomoides macrophthalmus	1.56	588	0.63	
Loligo plei	1.50	84	0.60	
Diplectrum bivittatum	1.50	94	0.60	
Fistularia petimba	1.50	12	0.60	
Haemulon aurolineatum	1.20	10	0.48	
Saurida normani	0.60	84	0.24	
Acanthostracion quadricornis	0.60	6	0.24	
Syacium micurum	0.40	4	0.16	
Synodus sp	0.30	42	0.12	
Pseudupeneus maculatus	0.12	6	0.05	
Total	248.48		100.02	

PROJECT STATION:1191
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1217 Long W 7204
 start stop duration
 TIME : 19:17 19:47 30 (min) Purpose code: 1
 LOG : 1060.30 1061.60 1.30 Area code : 8
 FDEPTH: 44 46 GearCond.code: 1
 BDEPTH: 44 46 Validity code: 1
 Towing dir: 250° Wire out: 250 m Speed: 25 kn*10
 Sorted: 30 Kg Total catch: 158.35 CATCH/HOUR: 316.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Opisthonema oglinum	74.52	3708	23.53	328
Microgobius furnieri	70.00	140	22.10	327
Mustelus sp	25.20	8	7.96	
Chloroscombrus chrysurus	20.16	562	6.37	329
Lutjanus synagris	17.60	36	5.56	
Pristipomoides macrophthalmus	14.04	1922	4.43	
Penaeus notialis	10.80	590	3.41	330
Lepophidium profundorum	10.66	526	3.37	
Eucinostomus argenteus	10.08	468	3.18	
Lutjanus vivanus	9.72	50	3.07	
Rhizoprionodon porosus	7.00	2	2.21	
Cynoscion jamaicensis	5.76	22	1.82	
Synodus sp	5.76	1440	1.82	
Loligo plei	5.04	324	1.59	
Uponesus parvus	3.96	130	1.25	
Diplectrum bivittatum	3.96	224	1.25	
Trachypenaeus sp	3.60	7020	1.14	
Synodus foetens	2.80	8	0.88	
Prionotus punctatus	2.52	22	0.80	
Haemulon aurolineatum	2.02	216	0.64	
Priacanthus arenatus	1.80	4	0.57	
Calamus pennatula	1.70	30	0.54	
Sphyræna picudilla	1.08	108	0.34	
Sphyræna guachancho	1.00	4	0.32	
Hoplostethus sp	0.86	108	0.27	
Serranus atrobranchius	0.72	152	0.23	
Selene setipinna	0.72	152	0.23	
Calamus penna	0.60	2	0.19	
Apogon sp	0.56	86	0.18	
Panulirus argus	0.50	2	0.16	
Haemulon boschmae	0.44	208	0.14	
Scomberomorus cavalla	0.44	72	0.14	
Hildebrandia sp.	0.36	44	0.11	
Porichthys bathoiketes	0.36	28	0.11	
Sardinella aurita	0.28	8	0.09	
Syacium micurum	0.08	14	0.03	
Penaeus brasiliensis	0.00	8		
Lutjanus purpureus	0.00	28		
Rhomboplites aurorubens	0.00	22		
Total	316.70		100.03	

PROJECT STATION:1192
 DATE: 8/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1207
 start stop duration Long W 7218
 TIME : 23:01 23:31 30 (min) Purpose code: 1
 LOG :1092.50 1093.00 1.30 Area code : 8
 FDEPTH: 46 46 GearCond.code: 1
 BDEPTH: 46 46 Validity code: 1
 Towing dir: 240° Wire out: 250 m Speed: 26 kn*10
 Sorted: 17 Kg Total catch: 71.60 CATCH/HOUR: 143.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	35.00	1332	24.44	
Eucinostomus argenteus	29.00	2030	20.25	
Penaeus brasiliensis	27.50	1880	19.20	331
Haemulon boschmae	21.50	4410	15.01	
Synodus pavo	8.40	1730	5.87	
Diplectrum bivittatum	6.00	110	4.19	
Dactylopterus volitans	4.00	260	2.79	
Synodus foetens	3.50	70	2.44	
Apogon sp	3.00	680	2.09	
Calamus pennatula	2.00	50	1.40	
Pristipomoides macrophthalmus	0.40	140	0.28	
Decapterus punctatus	0.40	130	0.28	
Lepophidium pheromystax	0.40	190	0.28	
Upeneus parvus	0.30	250	0.21	
Hoplunnis sp	0.20	10	0.14	
Sardinella aurita	0.20	20	0.14	
Porichthys pauciradiatus	0.20	70	0.14	
Lepophidium profundorum	0.20	90	0.14	
Diplectrum formosum	0.20	10	0.14	
Sphaeroides dorsalis	0.20	10	0.14	
Mullus auratus	0.20	10	0.14	
Ariomma sp	0.20	10	0.14	
Penaeus notialis	0.10	10	0.07	
Scorpaena brasiliensis	0.10	40	0.07	
Cyclopssetta fimbriata	0.00	10		
Porichthys sp	0.00	30		
Prionotus punctatus	0.00	10		
Loligo plei	0.00	10		
Lutjanus vivanus	0.00	10		
Symphurus diomedianus	0.00	10		
Syacium sp.	0.00	10		
Cantharhines sp	0.00	10		
Lutjanus synagris	0.00	10		
Total	143.20		99.99	

PROJECT STATION:1193
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1225
 start stop duration Long W 7229
 TIME : 02:05 02:35 30 (min) Purpose code: 3
 LOG :1110.50 1119.60 1.10 Area code : 8
 FDEPTH: 502 503 GearCond.code: 1
 BDEPTH: 502 503 Validity code: 1
 Towing dir: 250° Wire out:1400 m Speed: 22 kn*10
 Sorted: 21 Kg Total catch: 39.79 CATCH/HOUR: 79.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
GASTROPODS	32.50		40.84	
Coelorrinchus caribbaeus	13.50	224	16.96	
Physiculus fulvus	10.50	166	13.19	
Neoscolepis sp	7.50	156	9.42	
Stenidoteuthis adami	3.00	6	3.77	
Stenidoteuthis argenta	2.40	70	3.02	
Plasticus robustus	2.00	52	2.51	
Argyropelecus sp	1.80	154	2.26	333
Benthodesmus tenuis	1.50	48	1.88	
Aristaeomorpha foliacea	1.00	58	1.26	332
RAJIDAE	0.74	16	0.93	
Glyphocrangon neglecta	0.60	360	0.75	
Metastoma melanurum	0.30	6	0.38	
Ijmaia lepei	0.30	6	0.38	
Chaunax pictus	0.30	4	0.38	
Dibranchius atlanticus	0.30	34	0.30	
Peristichion sp	0.30	16	0.38	
Cyttopsis roseus	0.30	12	0.38	
Yarella blackfordi	0.20	18	0.25	
Rossia sp	0.18	4	0.23	
Polymeta corythaeola	0.08	18	0.10	
Bembrops sp	0.08	4	0.10	
Bonostoma elongatum	0.06	4	0.08	
Chaulliodus sloani	0.06	4	0.08	
Malacocephalus occidentalis	0.06	10	0.08	
GALATHEIDAE	0.02	4	0.03	
Total	79.58		100.02	

PROJECT STATION:1194
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1222
 start stop duration Long W 7226
 TIME : 04:10 05:10 60 (min) Purpose code: 3
 LOG :1129.50 1131.90 2.40 Area code : 8
 FDEPTH: 313 318 GearCond.code: 1
 BDEPTH: 313 318 Validity code: 1
 Towing dir: 250° Wire out:1050 m Speed: 24 kn*10
 Sorted: 8 Kg Total catch: 37.30 CATCH/HOUR: 37.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Epinephelus niveatus	8.50	1	22.79	
Mustelus canis	4.50	2	12.06	
Argyropelecus aculeatus	3.50	8050	9.38	
Polymixia lowei	3.50	125	9.38	
Ilix coindeti	3.10	21	8.31	
Coelorrinchus caribbaeus	2.50	130	6.70	
Stenidoteuthis argenta	2.00	50	5.36	
Pontinus longispinis	1.60	6	4.29	
Benthodesmus tenuis	1.25	35	3.35	
Plesionika edwardsii	1.00	133	2.68	
Lepophidium profundorum	1.00	85	2.68	
Lepophidium pheromystax	1.00	35	2.68	
Solenocera acuminata	0.60	33	1.61	
Acanthocaris caeca	0.50	1	1.34	
Argentinea sp.	0.45	45	1.21	
Prionotogrammus eos	0.30	1	0.80	
Nephropsis rosea	0.30	50	0.80	
Xenolepidichthys dalgleishi	0.30	30	0.80	
Parasudis sp	0.25	40	0.67	
Bembrops sp	0.25	5	0.67	
Penaeopsis serrata	0.20	53	0.54	
Hoplostethus occidentalis	0.20	20	0.54	
Dibranchius atlanticus	0.15	20	0.40	
Antigonia combata	0.15	5	0.40	
Cyttopsis roseus	0.10	25	0.27	
Symphurus diomedianus	0.10	20	0.27	
Total	37.30		99.90	

PROJECT STATION:1195
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1217
 start stop duration Long W 7227
 TIME : 06:34 07:04 30 (min) Purpose code: 3
 LOG :1140.50 1141.00 1.30 Area code : 8
 FDEPTH: 154 148 GearCond.code: 1
 BDEPTH: 154 148 Validity code: 1
 Towing dir: 210° Wire out: 700 m Speed: 26 kn*10
 Sorted: 26 Kg Total catch: 102.96 CATCH/HOUR: 205.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus lathami	50.40	648	24.48	334
Pristipomoides macrophthalmus	48.84	732	23.72	
Epinephelus flavolimbatus	28.20	2	13.69	
Upeneus parvus	21.24	870	10.31	
Mustelus norrisi	16.50	6	8.01	
Rhomboplites aurorubens	15.42	84	7.49	
Saurida normani	11.40	120	5.54	
Scorpaenopsis japonicus	3.18	60	1.54	
Trachinocephalus myops	2.52	36	1.22	
Ilix illecebrosus	2.20	12	1.07	
Penaeus brasiliensis	2.10	52	1.02	
Scorpaena brasiliensis	1.98	90	0.96	
Syacium papillosum	0.60	18	0.29	
Sarda sarda	0.50	2	0.24	
Fistularia petimba	0.30	6	0.15	
Loligo plei	0.30	6	0.15	
Pristipomoides freemani	0.12	6	0.06	
Cnucilactilus cyanops	0.12	12	0.06	
Dactylopterus volitans	0.00	6		
Total	205.92		100.00	

PROJECT STATION:1196
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1202
 start stop duration Long W 7223
 TIME : 09:13 09:43 30 (min) Purpose code: 3
 LOG :1160.70 1161.90 1.20 Area code : 8
 FDEPTH: 33 34 GearCond.code: 1
 BDEPTH: 33 34 Validity code: 1
 Towing dir: 240° Wire out: 200 m Speed: 25 kn*10
 Sorted: 3 Kg Total catch: 3.21 CATCH/HOUR: 6.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Fistularia tabacaria	1.00	20	28.04	
Echeneis naucrates	1.00	2	15.58	
Loligo pealei	0.00	12	12.46	
Balistes capricornis	0.00	2	12.46	
Eucinostomus argenteus	0.60	36	9.35	
Serioteuthis sepioides	0.40	10	6.23	
Acanthostracion quadricornis	0.40	4	6.23	
Diplectrum formosum	0.22	4	3.43	
Trachinocephalus myops	0.12	2	1.87	
Sphaeroides dorsalis	0.10	2	1.56	
Mullus auratus	0.08	2	1.25	
Calamus pennatula	0.06	4	0.93	
Bothus ocellatus	0.04	2	0.62	
Total	6.42		100.91	

PROJECT STATION:1197
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1158
 start stop duration Long W 7226
 TIME : 10:39 11:09 30 (min) Purpose code: 3
 LOG :1170.00 1171.30 1.30 Area code : 8
 FDEPTH: 20 23 GearCond.code: 1
 BDEPTH: 20 23 Validity code: 1
 Towing dir: 270° Wire out: 100 m Speed: 26 kn*10
 Sorted: 114 Kg Total catch: 936.31 CATCH/HOUR: 1872.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	809.00	1862	47.47	335
Balistes capricornis	616.00	1784	32.90	336
Lactophrys trigonus	301.00	56	16.07	
Seriola rivoliana	25.00	52	1.34	337
Epinephelus morio	16.00	6	0.85	
Calamus pennatula	8.40	28	0.45	
Balistes vetula	7.00	14	0.37	
Haemulon aurolineatum	4.20	56	0.22	
Eucinostomus argenteus	2.80	434	0.15	
Haemulon plumieri	2.80	28	0.15	
Fistularia tabacaria	0.42	14	0.02	
Total	1872.62		99.99	

PROJECT STATION:1198
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1159
 start stop duration Long W 7232
 TIME : 12:42 13:12 30 (min) Purpose code: 3
 LOG :1186.30 1187.70 1.40 Area code : 8
 FDEPTH: 52 46 GearCond.code: 1
 BDEPTH: 52 46 Validity code: 1
 Towing dir: 230° Wire out: 300 m Speed: 28 kn*10
 Sorted: 27 Kg Total catch: 254.52 CATCH/HOUR: 509.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Haemulon aurolineatum	103.60	2590	20.35	342
Decapterus punctatus	84.00	6048	16.50	341
Rhomboplites aurorubens	63.00	1162	12.38	348
Lutjanus analis	52.40	6	10.29	
Lutjanus synagris	32.20	322	6.33	338
Sardinella aurita	20.00	1442	5.50	339
Haemulon boschmae	20.00	2114	5.50	340
Calamus pennatula	20.00	210	5.50	
Acanthostracion polygonos	18.80	36	3.69	
Pomacanthus paru	16.80	8	3.30	
Pomacanthus arcuatus	16.00	0	3.14	
Epinephelus morio	12.00	2	2.36	
Ocyurus chrysurus	7.00	10	1.38	
Pseudupeneus maculatus	5.60	126	1.10	
Mulloidichthys martinicus	5.60	238	1.10	
Acanthostracion quadricornis	3.00	6	0.59	
Upeneus parvus	2.80	210	0.55	
Loligo plei	1.40	308	0.28	
Loligo pealei	0.70	56	0.14	
Diplectrum bivittatum	0.14	14	0.03	
Selar crumenophthalmus	0.00	14		
Canthigaster rostrata	0.00	14		
Total	509.04		100.01	

PROJECT STATION:1199
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1206 Long W 7237
 start stop duration Purpose code: 3
 TIME : 14:34 15:04 30 (min) Area code : 8
 LOG : 199.90 201.30 1.40 GearCond.code: 1
 FDEPTH: 85 86 Validity code: 1
 BDEPTH: 85 86
 Towing dir: 230° Wire out: 450 m Speed: 28 kn*10
 Sorted: 23 Kg Total catch: 320.68 CATCH/HOUR: 641.36

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus purpureus	348.40	54.32	343
Rhomboplites aurorubens	115.20	17.96	344
Haemulon aurolineatum	64.80	10.10	
Lutjanus vivanus	33.60	5.24	
Eucinostomus argenteus	18.00	2.81	
Upeneus parvus	15.60	2.43	
Mycteroperca interstitialis	13.00	2.03	
Pristipomoides macrophthalmus	12.00	1.87	
Calamus pennatula	8.40	1.31	
Seriola dumerili	6.00	0.94	
Lutjanus synagris	6.00	0.94	
Fistularia petimba	0.36	0.06	
Total	641.36	100.00	

PROJECT STATION:1200
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1201 Long W 7249
 start stop duration Purpose code: 3
 TIME : 16:24 16:54 30 (min) Area code : 8
 LOG : 1212.80 1214.00 1.20 GearCond.code: 1
 FDEPTH: 85 88 Validity code: 1
 BDEPTH: 85 88
 Towing dir: 260° Wire out: 450 m Speed: 24 kn*10
 Sorted: 29 Kg Total catch: 91.33 CATCH/HOUR: 182.66

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Rhomboplites aurorubens	84.00	45.99	345
Haemulon aurolineatum	30.00	16.42	
Calamus pennatula	15.00	8.21	
Eucinostomus argenteus	15.00	8.21	
Upeneus parvus	12.00	6.57	
Pristipomoides macrophthalmus	9.00	4.93	
Lutjanus buccanella	8.00	4.38	
Acanthostracion quadricornis	6.60	3.61	
Fistularia petimba	1.80	0.99	
Decapterus punctatus	0.36	0.20	
Serranus phoebe	0.30	0.16	
Chaetodon sedentarius	0.24	0.13	
Loligo pealei	0.18	0.10	
Synodus intermedius	0.12	0.07	
Haemulon boschmae	0.06	0.03	
Total	182.66	100.00	

PROJECT STATION:1201
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1157 Long W 7246
 start stop duration Purpose code: 3
 TIME : 17:51 18:21 30 (min) Area code : 8
 LOG : 1221.80 1223.30 1.50 GearCond.code: 1
 FDEPTH: 60 58 Validity code: 1
 BDEPTH: 60 58
 Towing dir: 143° Wire out: 300 m Speed: 30 kn*10
 Sorted: 57 Kg Total catch: 57.38 CATCH/HOUR: 114.76

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus analis	35.00	30.50	
Calamus pennatula	20.60	17.95	
Epinephelus morio	15.00	13.07	
Upeneus parvus	6.20	5.40	
Decapterus punctatus	5.90	5.14	346
Haemulon aurolineatum	5.00	4.36	
Mustelus norrisi	4.90	4.27	
Acanthostracion poliginos	3.40	2.96	
Eucinostomus argenteus	3.20	2.79	
Fistularia tabacaria	2.20	1.92	
Aluterus monoceros	1.84	1.60	
Loligo pealei	1.76	1.53	347
Synodus footens	1.60	1.39	
Fistularia petimba	1.60	1.39	
Synodus intermedius	1.34	1.17	
Diplectrum formosum	1.00	0.87	
Cyclosetta fimbriata	0.80	0.70	
Balistes capricus	0.70	0.61	
Rhomboplites aurorubens	0.30	0.26	
Diplectrum bivittatum	0.30	0.26	
Pseudupeneus maculatus	0.30	0.26	
Aluterus scripta	0.30	0.26	
Sphoeroides dorsalis	0.24	0.21	
Sardinella aurita	0.20	0.17	
Haemulon boschmae	0.20	0.17	
Acanthostracion quadricornis	0.20	0.17	
Penaeus brasiliensis	0.16	0.14	
Priacanthus arenatus	0.10	0.09	
Prionotus punctatus	0.10	0.09	
Lutjanus synagris	0.10	0.09	
Syacium papillosum	0.08	0.07	
Dactylopterus volitans	0.06	0.05	
Trachurus lathami	0.04	0.03	
Serranus atrobranchus	0.04	0.03	
Total	114.76	99.97	

PROJECT STATION:1202
 DATE: 9/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1157 Long W 7237
 start stop duration Purpose code: 1
 TIME : 20:43 21:13 30 (min) Area code : 8
 LOG : 1246.50 1247.90 1.40 GearCond.code: 1
 FDEPTH: 50 42 Validity code: 1
 BDEPTH: 50 42
 Towing dir: 210° Wire out: 300 m Speed: 28 kn*10
 Sorted: 23 Kg Total catch: 192.49 CATCH/HOUR: 384.98

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Haemulon aurolineatum	228.20	63.90	59.28
Haemulon boschmae	26.60	25.48	6.91
Lutjanus griseus	19.00	4	4.94
Calamus pennatula	18.62	22.4	4.84
Lutjanus synagris	15.00	30	3.90
Lutjanus analis	11.60	4	3.01
Acanthostracion poliginos	9.94	14	2.58
Mullus auratus	9.80	210	2.55
Eucinostomus argenteus	7.70	252	2.00
Synodus intermedius	6.30	392	1.64
Apogon sp	5.04	1106	1.31
Pomacanthus arcuatus	4.50	2	1.17
Scomber japonicus	3.50	42	0.91
Acanthostracion quadricornis	2.80	14	0.73
Myripristia jacobus	2.66	126	0.69
Rhomboplites aurorubens	2.10	70	0.55
Ophidion holbrooki	1.40	42	0.36
Septocentris sepioides	1.40	14	0.36
Haemulon plumieri	1.40	28	0.36
Dactylopterus volitans	1.40	14	0.36
Decapterus punctatus	0.80	70	0.22
Holocentrus rufus	0.70	14	0.18
Ocyurus chrysurus	0.70	2	0.18
Trachinocephalus myops	0.70	14	0.18
Diplectrum bivittatum	0.70	112	0.18
Mulloidichthys martinicus	0.70	42	0.18
Penaeus brasiliensis	0.70	70	0.18
Lutjanus buccanella	0.42	14	0.11
Lepophidium pheromystax	0.28	98	0.07
Adiorx bullisi	0.20	28	0.07
Serranus phoebe	0.00	14	
Total	384.98	100.00	

PROJECT STATION:1203
 DATE: 9/12/88 GEAR TYPE: FT No:2 POSITION:Lat N 1149 Long W 7248
 start stop duration Purpose code: 1
 TIME : 23:20 23:40 20 (min) Area code : 8
 LOG : 1266.10 1267.30 1.20 GearCond.code: 1
 FDEPTH: 6 5 Validity code: 1
 BDEPTH: 21 10
 Towing dir: 240° Wire out: 50 m Speed: 36 kn*10
 Sorted: 27 Kg Total catch: 139.00 CATCH/HOUR: 417.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Opisthonema oglinum	405.00	28533	97.12
Decapterus punctatus	7.50	210	1.80
Opisthonema oglinum	4.50	60	1.08
Total	417.00	100.00	

PROJECT STATION:1204
 DATE: 10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1149 Long W 7303
 start stop duration Purpose code: 1
 TIME : 06:18 06:48 30 (min) Area code : 8
 LOG : 1310.90 1312.10 1.20 GearCond.code: 1
 FDEPTH: 72 70 Validity code: 1
 BDEPTH: 72 70
 Towing dir: 350° Wire out: 260 m Speed: 25 kn*10
 Sorted: 18 Kg Total catch: 84.14 CATCH/HOUR: 168.28

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP. NO.
	weight numbers		
Lutjanus analis	44.80	18	26.62
Haemulon aurolineatum	42.40	1500	25.20
Lutjanus purpureus	21.60	6	12.84
Haemulon boschmae	14.80	1204	8.79
Pomacanthus arcuatus	10.40	6	6.18
Lachnolaimus maximus	8.00	4	4.75
Mustelus canis	6.40	2	3.80
Holocentrus rufus	2.92	16	1.74
Myripristia jacobus	2.80	160	1.66
Upeneus parvus	2.60	236	1.55
Apogon sp	2.00	64	1.19
Seriola zonata	1.80	2	1.07
Calamus pennatula	1.20	4	0.71
Rhomboplites aurorubens	1.08	40	0.64
Synodus intermedius	1.00	92	0.59
Adiorx bullisi	1.00	64	0.59
Loligo pealei	0.84	64	0.50
Syacium micrurum	0.52	64	0.31
Diplectrum bivittatum	0.52	40	0.31
Penaeus brasiliensis	0.40	84	0.24
Lutjanus buccanella	0.32	4	0.19
Paranthias furoifer	0.32	4	0.19
Serranus phoebe	0.28	40	0.17
Pristipomoides macrophthalmus	0.20	4	0.12
Cyclosetta chittendeni	0.08	12	0.05
Bothus ocellatus	0.00	4	
Total	168.28	100.00	

PROJECT STATION:1205
 DATE:10/12/80 GEAR TYPE: BT No:1 POSITION:Lat N 1142 Long W 7303
 start stop duration
 TIME : 08:00 08:30 30 (min) Purpose code: 3
 LOG :1322.30 1323.50 1.20 Area code : 8
 FDEPTH: 20 10 GearCond.code: 1
 BDEPTH: 20 18 Validity code: 1
 Towing dir: 320° Wire out: 150 m Speed: 25 kn*10
 Sorted: 20 Kg Total catch: 28.32 CATCH/HOUR: 56.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lactophrys trigonus	14.00	26	24.72	
Scomberomorus cavalla	13.40	10	23.66	
Balistes capricus	5.40	10	9.53	
Aluterus monoceros	5.20	6	9.18	
Acanthostracion quadricornis	5.00	34	8.83	
Eucinostomus argenteus	3.00	22	5.30	
Trachinocephalus myops	2.00	6	3.53	
Echeneis naucrates	1.40	10	2.47	
Aluterus scripta	1.30	4	2.30	
Seriola lalandi	1.20	30	2.12	
Loligo pealei	1.04	14	1.84	
Sphoeroides spengleri	1.02	26	1.80	
Rachycentron canadus	1.00	2	1.77	
Calamus pennatula	0.60	22	1.06	
Diploctetrus bivittatus	0.40	4	0.71	
Acanthostracion polygonus	0.20	2	0.35	
Lutjanus synagris	0.16	2	0.20	
Diodon holocanthus	0.06	2	0.11	
Synodus sp	0.06	4	0.11	
Synodus foetens	0.04	2	0.07	
Loligo plei	0.04	2	0.07	
Synodus intermedius	0.04	2	0.07	
Sphoeroides dorsalis	0.04	2	0.07	
Bothus ocellatus	0.02	2	0.04	
Total	56.64		100.03	

PROJECT STATION:1208
 DATE:10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1120 Long W 7331
 start stop duration
 TIME : 14:22 14:52 30 (min) Purpose code: 3
 LOG :1371.60 1372.70 1.10 Area code : 8
 FDEPTH: 59 62 GearCond.code: 1
 BDEPTH: 59 62 Validity code: 1
 Towing dir: 250° Wire out: 300 m Speed: 22 kn*10
 Sorted: 25 Kg Total catch: 101.51 CATCH/HOUR: 203.02

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	57.60	2176	28.37	355
Selene vomer	46.00		23.64	
Priacanthus arenatus	24.00	192	11.82	
Rhomboplites aurorubens	16.00	240	7.88	
Saurida normani	16.00	408	7.08	
Upeneus parvus	12.00	264	5.91	
Eucinostomus argenteus	8.00	232	3.94	
Ogcocephalus notatus	4.00	8	1.97	
Haemulon aurolineatum	4.00	64	1.97	
Pristipomoides macrophthalmus	3.20	272	1.58	
Lutjanus synagris	3.20	40	1.58	
Sphyræna picudilla	2.40	16	1.18	
Selar crumenophthalmus	1.60	16	0.79	
Calamus pennatula	0.80	40	0.39	
Diploctetrus bivittatus	0.80	56	0.39	
Loligo pealei	0.80	328	0.39	
Caulolatilus intermedius	0.32	8	0.16	
Penaeus notialis	0.20	24	0.10	
Penaeus brasiliensis	0.10	10	0.05	
Saurida sp	0.00	32		
Synodus sp	0.00	56		
Total	203.02		99.99	

PROJECT STATION:1206
 DATE:10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1131 Long W 7317
 start stop duration
 TIME : 10:21 10:51 30 (min) Purpose code: 3
 LOG :1342.00 1343.30 1.30 Area code : 8
 FDEPTH: 72 69 GearCond.code: 1
 BDEPTH: 72 69 Validity code: 1
 Towing dir: 232° Wire out: 400 m Speed: 26 kn*10
 Sorted: 135 Kg Total catch: 135.17 CATCH/HOUR: 270.34

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus analis	92.80	36	34.33	352
Myceroperca bonaci	39.00	6	14.43	
Lutjanus purpureus	23.40	14	8.66	351
Lutjanus griseus	20.00	2	7.40	
Doanopus punctatus	17.98	694	6.65	350
Enchelyopus maximus	13.60	4	5.03	
Epinephelus morio	10.50	2	3.88	
Rhomboplites aurorubens	9.00	572	3.33	349
Pomacanthus arcuatus	7.60	4	2.81	
Balistes vetula	6.20	2	2.29	
Haemulon boschmae	6.00	600	2.22	
Mustelus norrisi	5.20	2	1.92	
Acanthostracion quadricornis	5.20	4	1.92	
Haemulon aurolineatum	4.20	138	1.55	
Eucinostomus argenteus	2.40	76	0.89	
Calamus pennatula	1.80	10	0.67	
Seriola zonata	1.60	2	0.59	
Seriola rivoliana	1.40	2	0.52	
Upeneus parvus	1.00	42	0.37	
Serranus phoebe	0.60	8	0.22	
Balistes capricus	0.40	2	0.15	
Synodus foetens	0.20	2	0.07	
Fistularia petimba	0.10	2	0.04	
Diploctetrus bivittatus	0.04	10	0.01	
Haemulon striatum	0.04	2	0.01	
Pristipomoides macrophthalmus	0.04	24	0.01	
Sphoeroides dorsalis	0.02	2	0.01	
Lutjanus vivanus	0.02	2	0.01	
Sardinella aurita	0.00	2		
Syacium sp.	0.00	2		
Total	270.34		99.99	

PROJECT STATION:1209
 DATE:10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1129 Long W 7352
 start stop duration
 TIME : 17:07 17:22 15 (min) Purpose code: 3
 LOG :1394.20 1394.90 0.70 Area code : 8
 FDEPTH: 94 105 GearCond.code: 1
 BDEPTH: 94 105 Validity code: 1
 Towing dir: 275° Wire out: 450 m Speed: 20 kn*10
 Sorted: 8 Kg Total catch: 8.38 CATCH/HOUR: 33.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Mustelus norrisi	12.00	4	35.80	
Pristipomoides macrophthalmus	6.40	308	19.09	
Saurida normani	2.80	140	8.35	
Loligo plei	2.80	72	8.35	
Eucinostomus argenteus	2.00	48	5.97	
Lutjanus vivanus	2.00	8	5.97	
Lutjanus purpureus	1.60	4	4.77	
Upeneus parvus	1.20	44	3.58	
Priacanthus arenatus	1.20	8	3.58	
Calamus pennatula	0.40	4	1.19	
Rhomboplites aurorubens	0.40	4	1.19	
Syacium papillosum	0.20	12	0.60	
Chloroscombrus chrysurus	0.20	8	0.60	
Fistularia petimba	0.16	4	0.48	
Syacium sp.	0.08	20	0.24	
Serranus phoebe	0.08	4	0.24	
Serranus atrolanchus	0.00	8		
Synodus sp	0.00	24		
Total	33.52		100.00	

PROJECT STATION:1207
 DATE:10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1123 Long W 7320
 start stop duration
 TIME : 12:34 13:04 30 (min) Purpose code: 3
 LOG :1350.00 1359.10 1.10 Area code : 8
 FDEPTH: 20 23 GearCond.code: 1
 BDEPTH: 20 23 Validity code: 1
 Towing dir: 260° Wire out: 150 m Speed: 22 kn*10
 Sorted: 22 Kg Total catch: 82.96 CATCH/HOUR: 165.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Aetobatus narinari	40.00	2	24.11	
Eucinostomus argenteus	29.20	750	17.60	354
Lutjanus analis	24.00	4	14.46	
Chloroscombrus chrysurus	20.80	254	12.54	353
Acanthostracion quadricornis	8.00	48	4.82	
Scomberomorus cavalla	7.00	2	4.22	
Syacium papillosum	6.00	60	3.62	
Aluterus schoepfi	5.20	12	3.13	
Upeneus parvus	4.00	60	2.41	
Calamus pennatula	4.00	92	2.41	
Scomberomorus brasiliensis	3.00	4	1.81	
Echeneis naucrates	3.00	2	1.81	
Lutjanus synagris	2.80	28	1.69	
Synodus foetens	2.40	28	1.45	
Priacanthus arenatus	2.00	4	1.21	
Sphyræna quechancho	1.50	4	0.96	
Sphoeroides dorsalis	1.20	20	0.72	
Sphyræna picudilla	0.80	4	0.48	
Rhomboplites aurorubens	0.16	4	0.10	
Haemulon plumieri	0.16	4	0.10	
Trachinocephalus myops	0.16	8	0.10	
Bothus ocellatus	0.12	12	0.07	
Sphoeroides spengleri	0.12	8	0.07	
Pseudupeneus maculatus	0.12	4	0.07	
Haemulon aurolineatum	0.08	4	0.05	
Diploctetrus bivittatus	0.00	16		
Prionotus punctatus	0.00	4		
Total	165.92		100.01	

PROJECT STATION:1210
 DATE:10/12/88 GEAR TYPE: BT No:1 POSITION:Lat N 1122 Long W 7409
 start stop duration
 TIME : 19:14 19:44 30 (min) Purpose code: 3
 LOG :1410.30 1411.60 1.30 Area code : 8
 FDEPTH: 101 100 GearCond.code: 1
 BDEPTH: 101 100 Validity code: 1
 Towing dir: 265° Wire out: 450 m Speed: 26 kn*10
 Sorted: 29 Kg Total catch: 29.66 CATCH/HOUR: 59.32

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lutjanus synagris	28.60	62	40.21	
Lutjanus vivanus	5.60	26	9.44	
Pristipomoides macrophthalmus	5.00	170	8.43	
Saurida normani	3.60	26	6.07	
Lutjanus analis	3.60	2	6.07	
Rypticus histrispinus	2.00	4	3.37	
Lutjanus purpureus	1.90	12	3.20	
Haemulon striatum	1.30	26	2.19	
Apogon sp	1.00	516	1.69	
Penaeus brasiliensis	1.00	54	1.69	
Haemulon aurolineatum	0.92	12	1.55	
Holocentrus rufus	0.80	4	1.35	
Pomadasys croceus	0.72	4	1.21	
Fistularia petimba	0.60	2	1.01	
Lutjanus buccanella	0.60	4	1.01	
Priacanthus arenatus	0.50	2	0.84	
Hoplunnis sp	0.30	4	0.51	
Syacium micurum	0.20	20	0.34	
Serranus phoebe	0.20	10	0.34	
Porichthys sp	0.20	34	0.34	
Lepophidium pheromystax	0.20	22	0.34	
Chaetodon sedentarius	0.20	6	0.34	
Upeneus parvus	0.08	4	0.13	
Stephanolepis hispidus	0.06	2	0.10	
Diplobatys quanaquana	0.04	2	0.07	
Equetus lanceolatus	0.04	2	0.07	
Synagrops ballus	0.02	4	0.03	
Holanthias martinicensis	0.02	4	0.03	
Serranus atrolanchus	0.02	6	0.03	
Total	59.32		100.00	



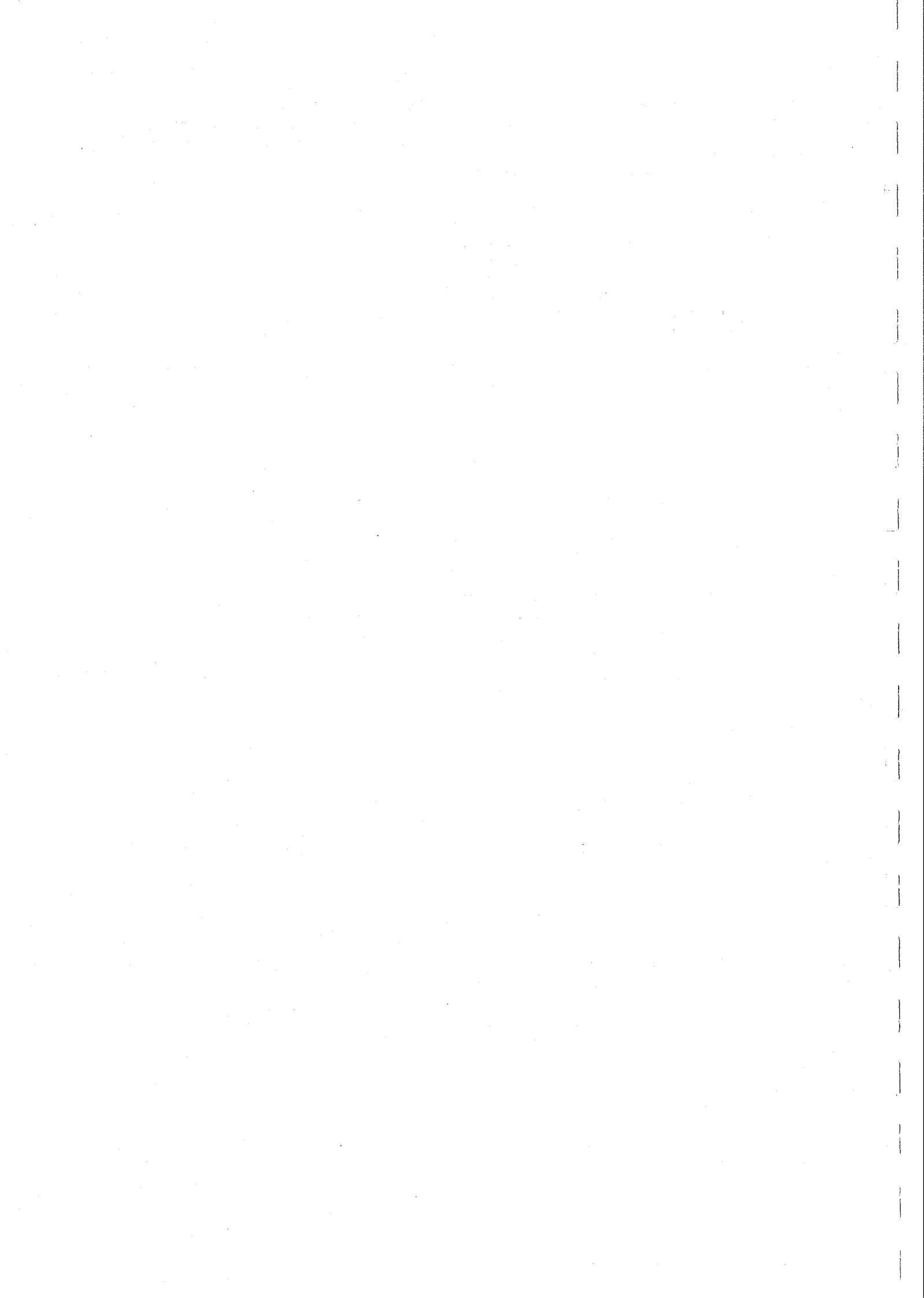
Annex 4. Length frequency distributions by species and stations, raw data.

Apéndice 4. Distribuciones de tallas por especies y estaciones. Datos sin procesar.

FAMILY/SPECIES	STATION	Lowest length	Step length	FREQUENCY IN LENGTH GROUP																																						
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
ARIIDAE																																										
Ariopsis bonillai																																										
	289	19.00	1.00	1	1	1	2	1	4	1	1																															
Arius grandicassis																																										
	74	22.00	2.00	3	2	2	4	1	4	4	1	2	5	4											1																	
	76	43.00	1.00	1				1				1																														
	92	40.00	1.00	1			1	1	1				2			1																										
	95	46.00	1.00	1			1				2	2	1	1			1	1																								
	96	48.00	1.00	1	1	2			2	1																																
	369	47.00	1.00	2	3	4	2	1				1	1																													
	389	43.00	1.00	1											1	2	2	2	4	2								1														
	993	14.00	2.00	1	3	5	4	1	2	1			2																		2											
Arius quadriscutis																																										
	46	30.00	1.00	2	2				2																																	
	75	20.00	1.00	1			1	1	1	2	3	4	6	5	8	4	3	5			1	2								1												
	76	19.00	1.00	1											6	3	3	1	3	1	1	2	3	1																		
	95	21.00	1.00	1			1	1				1	2	2	1	4	1	1																								
	96	30.00	1.00	1			1	2				3	1	1																												
	369	22.00	1.00	1			1	1	1	4	4	1	3			1	1	1	2	1	1	1																				
	389	25.00	1.00	1	2			2	1	2	1	1	2	1	3	2	2	3	2	1	1	2																				
	993	21.00	1.00	1	1	2			1				1	1	1	2	2			1	1																					
Bagre bagre																																										
	74	27.00	1.00	2	2	3	5	3	3	3	3	1	1			1	1											1														
	76	12.00	2.00	1				3	4			6	4	5	1			1	1																							
	369	16.00	1.00	2	1			2	1	1	6	3	1			1								1	1																	
	993	20.00	1.00	2	1	2	5	6	7	3	1	4	2	1	1	1			1	1	2											1										
Bagre marinus																																										
	142	14.50	0.50	1											1			2			1	3	3			6	6	4	2	3	1	1	2				1					
	289	16.00	1.00	2				1			2	1				1																	2									
	404	44.00	1.00	1	2	1	1	1			1																															
Cathorops spixii																																										
	485	15.00	1.00	2	2	4	8	8	7	13	8	7	12	13	10	15	9	4	6																							
	488	18.00	0.50	1			2	6	5	2	3	5	8	5	3	3	4	1																								
	752	9.00	0.50	1	3	3			1	1	3	2	1	4	10	3	4	2	2	3	4	2	1			1			1	1												
ARIOMMIDAE																																										
Ariomma bondi																																										
	495	13.50	0.50	3	8	13	17	4	2																																	
	812	14.00	0.50	1	8	27	27	21	3	1	1																															
	1033	15.50	0.50	2	7	12	15	12	3	16	13	8	7			1																										
	1042	13.50	0.50	1	2	2	14	22	35	18	12	5	2	3	2																											
Ariomma melanum																																										
	780	13.50	0.50	1	18	36	26	13	2				1																													
Ariomma regius																																										
	109	20.00	1.00	4	9	7	9	5	2	6			1																													
BALISTIDAE																																										
Balistes capricus																																										
	281	20.00	1.00	1	2	3	11	15	10	4	1	2	1				5	3	1								1															
	587	22.00	1.00	3	5	10	10	7	5	11	6	7	2	1	1	1																										
	1197	26.00	1.00	4	11	9	8	4	8	7	4																															
Balistes vetula																																										
	126	18.00	0.50	1	1	6	7	11	9	10	13	7	3	5	1	1	2																									
	778	18.00	1.00	1				1	1	3	1	1			1	2	1											1														

FAMILY/SPECIES	STATION	Lowest length	Step length	FREQUENCY IN LENGTH GROUP																														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Lutjanus griseus (cont.)	527	73.00	1.00	1								1	1																					
	823	56.00	1.00	1						1			1		1												1							
	830	31.00	1.00	1	1	1		2	1			1	1	2		1	1																	
Lutjanus jocu	1047	57.00	1.00	1			1																											
Lutjanus buccanella	177	36.00	1.00	1	1			1			1	2			1	2	1	1		1	2	4		1	2		1	1						
	215	40.00	1.00	1	1																													
	216	35.00	1.00	1	2		1			2			2	1	1	1	2	1					1				1	1	1	1				
	290	66.00	1.00	1																														
Lutjanus vivanus	271	32.00	2.00	1	2																		1											
	276	55.00	1.00	1																														
	291	60.00	1.00	1																														
	318	29.00	1.00	1	2		7	4	3	4	5	2	5	3	1	2	2	2	4	2	1	1	3	1	2		1	2	1		1			
	533	12.00	0.50	4	2	1	4	3	3	2	6	6	10	4	4	3	6	3	4	1	2	3	3	2	1		2	1	1	2				
	592	15.00	1.00	1			1	2	1	3	4	8	7	4	4	3	4	2																
	813	75.00	1.00	1	1		1	2		1																								
	1140	11.00	1.00	2	2	3	2	4	6	5	3	2	1	4	13	17	11	5	5				7	5	7	2	3	5		1	1	2		
Lutjanus apodus	509	47.00	1.00	1								1					3		1	1	3	1	1		1	2								
	648	68.00	1.00	1																														
Lutjanus purpurus	9	28.00	2.00	1		1	1	2	1	1	3	1	1										1											
	12	16.00	1.00	1	2								1	2					1	1		1												
	18	22.00	2.00	1	1		1			1	1																	1					1	
	20	30.00	1.00	1	1	1	1	1	1	3																								
	21	72.00	1.00	1		1			1																									
	31	18.00	2.00	2						1	1						1																	1
	32	22.00	2.00	1	1	6	12	14	23	10	9	3	1	1												1								1
	33	38.00	2.00	1	2	2	4	4	6	4	4	2	1			1	2		1	1	2				1									
	40	55.00	1.00	1	1												1																	
	53	19.00	1.00	1			2		1		1	2	1	2	2		4	4	1	2		1												1
	54	19.00	0.50	3						1						1						1												
	55	85.00	1.00	1																														
	57	19.00	1.00	1		1	2	2	2	4	10	5	4	2	4	1	3	3	3	1	1	1												
	58	36.00	2.00	1	3			1																			1							
	66	22.00	1.00	4	2	3	5	4	7	5	10	8	1	4	3	1	3																	
	72	17.00	1.00	2		1																												
	80	22.00	1.00	1			1		2			3		1	1																			
	112	25.00	5.00	3		1						1		1																				
	143	30.50	1.00	1																														
	148	22.00	1.00	2	1										1																			
	179	72.00	1.00	1																														
	195	26.00	1.00	1	2	1		1	1		6	2	1	1	2																			
	214	16.00	1.00	1			1	1		3						1																		
	215	46.00	1.00	1																														
	274	17.00	1.00	1		1		1									1																	
	301	44.00	1.00	1		1																												
	302	35.00	5.00	5	5			3	1	1	1	3	3																					
	313	80.00	5.00	1	1																													
	332	80.00	1.00	1																														
	349	21.00	1.00	2	3	7	4	6	2	3	4	2	1	1	1	3																		
	350	21.00	2.00	2	7	9	4	9	6	7	3	4	2		1	3				2		1			1		1				3		1	

FAMILY/SPECIES	STATION	Lowest length	Step length	FREQUENCY IN LENGTH GROUP																																				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
Sphyræna picudilla (cont.)				996	29.00	1.00	2	7	7	20	26	16	15	7	3	2																								
				997	23.00	1.00	1							2	9	5	5	5	2	1																				
				1001	24.00	1.00	1					1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
				1004	27.00	0.50	1			1	1	2	2	1	6	3	5	2	4	1	4	1																		
				1025	23.00	1.00	4			2	1					1	1	4	3	3	2	6	1	1	1	2														
				1046	31.00	1.00	1	1	2	7	7			2	1																									
				1149	30.00	1.00	5	6	4	4	3	1	1	1	1	1																								
CEPHALOPODA																																								
Loligo sp																																								
				110	4.50	0.50	2	1	5	5	2	11	17	12	1	4	4	1																						
Loligo pealei																																								
				28	3.00	0.50	4	16	24	27	18	10	6	9	1	1	4	3	4	3	2																			
				35	5.00	0.50	10	6	3	4	6	5	4	1	1	1	1	1	1																					
				36	7.00	0.50	2	7	5	7	4	2	3	2	4	1	1	1	2	1	2	2	3	1	1	1	1													
				42	3.00	1.00	9	21	33	16	8	1	7	5	6	5	5	18	22	10	5	1																		
				45	4.00	0.50	2	1	2	1	2	3	2	4	2	4	3	2	5	2	1	1	1	1	1	1	1	1	1											
				49	3.00	0.50	1	2	1	3	2	12	23	8	8	7	7	1																						
				50	2.00	0.50	1	11	37	55	34	20	19	15	2	3	1	2	1	1																				
				53	4.00	1.00	1	17	22	10	3	4	4	1	1	1	2	2	1	1	2																			
				54	6.00	0.50	2			3	10	7	3	3	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1										
				55	6.00	0.50	1	1			1			2			1																							
				65	3.00	1.00	2	5	36	35	8	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
				77	2.00	1.00	1	10	46	65	24	1	2	1																										
				109	4.00	0.50	1	1	3	3	6	15	6	9	7	6	1	1	1	2																				
				113	3.00	0.50	1	1	4	5	10	14	9	5	11	13	7	3	2	2	1	1																		
				123	4.50	0.50	1	1	1	2	6	4	3	1	3	3	1	2	1	1	1																			
				136	2.00	0.50	2	2	7	13	9	7	10	12	8	5	7	1	3	5	3	2	1	1	1	1														
				138	2.50	0.50	2	6	19	31	22	15	9	11	1	1	2	4	1	2	5	1	3																	
				147	5.00	1.00	1			2	23	23	13	3	3	1	1																							
				156	4.00	0.50	1	11	29	34	18	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
				166	2.00	0.50	1	2	6	6	7	9	7	10	3	8	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
				148	2.00	0.50	2	3			3	2	5	9	15	19	12	9	9	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1						
				272	6.50	0.50	1	1	2	4	2	4	8	12	14	13	5	3	2	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
				274	4.00	0.50	2	2	6	3	4	7	2	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
				225	11.00	0.50	1			2			4	1																										
				253	3.50	0.50	1	2	4	6	8	9	9	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
				255	4.50	0.50	4	18	10	10	6	4	2	1	2	4	4	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
				264	5.00	1.00	1	1	2	1	1	5	5	7	5	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
				271	3.00	1.00	1	11	25	21	14	7	8	6	4	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
				288	3.50	0.50	1	2	1	2	2	5	6	5	7	7	5	1	2	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
				296	6.00	1.00	3	2	4	5	4	4	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
				297	2.00	0.50	1	2	4	3	3	2	5	2	5	8	4	2	2	2	1	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1				
				306	4.50	0.50	1			1	1	3	3	5	1	1	1	4	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1				
				326	6.00	1.00	4	8	8	6	13	7	13	26	11	10	19	10	3	3																				
				362	4.00	1.00	2	3	6	1	2	1	1	1																										
				390	2.00	1.00	2	14	12	17	21	9	12	6	1																									
				414	3.00	1.00	4	17	4	3	7	8	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
				415	3.00	0.50	2	2	4	16	18	9	4	6	4	3	1	3	2																					
				492	2.00	1.00	2	4	4	13	28	17	4	1	2	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
				514	10.00	1.00	9	10	10	5	2	3	1																											
				535	2.00	0.50	6	12	23	22	21	12	8	5	4	2	1	2	1	2	1	2	1	2	1	3	1	1	1	1	1	1	1	1	1	1				
				839	3.00	1.00	4	7	2	6	7	6	3	8	11	1	1	2	1	1	2	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1			
				914	3.00	0.50	1	5	12	16	29	14	13	9	6	1	5	3	1																					



FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
<i>Chloroscombrus chrysurus</i> (cont.)								
	628	20.00	24.00	22.09	1.57	32	0.0969	
	631	14.00	28.00	18.50	18.00	16	0.0075	
	652	13.00	16.00	14.37	0.57	54	0.0278	
	656	8.00	29.00	18.77	21.11	156	0.0641	
	657	9.50	15.00	12.21	1.26	123	0.0195	
	667	9.00	20.00	16.12	4.02	91	0.0352	
	700	16.00	30.50	25.05	14.38	38	0.1158	
	701	23.00	32.00	27.65	4.57	54	0.1481	
	753	28.00	37.00	30.02	2.86	51	0.2078	
	761	12.50	21.50	15.29	1.70	61	0.0304	
	847	10.00	35.00	26.10	18.88	135	0.1630	
	848	10.00	32.00	13.49	22.01	108	0.0343	
	850	11.00	39.00	23.88	54.39	73	0.1219	
	851	12.00	31.00	26.09	19.67	45	0.1522	
	853	26.00	33.00	29.22	5.18	27	0.2000	
	854	12.00	19.50	12.93	1.51	118	0.0225	
	856	11.00	18.00	14.04	2.62	67	0.0455	
	858	12.50	22.00	15.28	2.33	87	0.0747	
	861	16.00	38.00	24.25	22.50	79	0.1247	
	862	12.00	26.00	17.23	19.10	66	0.0561	
	915	15.00	23.00	16.56	1.74	62	0.0355	
	921	14.00	24.00	15.74	5.04	73	0.0404	
	922	16.00	26.00	18.85	4.59	52	0.0615	
	926	14.50	24.50	18.99	3.11	75	0.0574	
	855	14.50	19.00	16.49	0.93	68	0.0397	
	966	18.00	25.50	21.56	2.96	53	0.1019	
	974	9.00	26.00	19.04	9.10	82	0.0646	
	982	13.00	18.50	14.91	0.49	93	0.0258	
	984	10.00	23.00	14.02	13.18	136	0.0368	
	986	7.00	29.00	17.44	26.95	123	0.0642	
	991	15.00	18.00	16.05	0.42	107	0.0374	
	992	14.50	20.50	17.43	1.74	41	0.0463	
	994	10.00	21.00	17.17	10.22	23	0.0522	
	996	8.00	25.00	10.43	12.04	79	0.0139	
	1001	14.00	39.00	21.69	58.25	58	0.1440	
	1025	14.00	33.00	22.21	26.77	34	0.1029	
	1031	9.00	29.00	19.36	30.63	56	0.0964	
	1035	15.00	37.00	23.61	37.24	59	0.1263	
	1046	13.50	18.50	14.91	0.62	89	0.0337	
	1139	15.50	20.50	17.05	0.99	51	0.0451	
	1141	15.00	27.50	20.01	12.26	38	0.0711	
	1145	12.50	20.00	16.63	2.71	75	0.0413	
	1149	15.00	22.50	18.06	2.44	58	0.0552	
	1161	13.50	19.00	16.22	1.56	85	0.0376	
	1163	19.00	36.00	25.19	13.22	48	0.1417	
	1165	13.00	35.00	22.96	23.95	47	0.1043	
	1167	8.00	33.00	19.50	25.87	68	0.0735	
	1170	12.00	32.00	25.88	13.87	69	0.1493	
	1172	13.00	33.00	25.08	17.97	38	0.1447	
	1174	14.00	27.00	16.48	4.76	75	0.0400	
	1179	18.00	33.00	24.63	10.97	64	0.1250	
	1187	15.00	29.50	18.24	7.04	85	0.0529	
	1188	12.00	33.00	20.09	29.38	47	0.0638	
	1191	13.50	18.00	16.08	0.73	78	0.0359	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
<i>Chloroscombrus chrysurus</i> (cont.)								
	1207	17.00	26.00	21.62	6.14	39	0.0821	
	1208	13.50	19.00	14.60	1.38	102	0.0265	
<i>Decapterus</i> sp								
	12	9.00	29.00	23.56	17.37	94	0.1340	
<i>Decapterus punctatus</i>								
	34	12.00	18.50	15.32	4.16	34	0.0382	
	53	9.00	16.50	10.76	1.12	84	0.0107	
	55	9.50	18.00	11.82	2.37	134	0.0172	
	57	12.50	19.50	16.15	1.95	117	0.0385	
	58	8.50	16.50	11.13	4.44	96	0.0135	
	66	7.00	17.50	12.95	4.10	99	0.0242	
	72	9.50	20.00	14.47	4.85	59	0.0339	
	154	15.00	22.00	18.79	2.60	29	0.0655	
	162	14.50	21.50	18.48	1.80	78	0.0654	
	306	15.00	17.00	15.99	0.25	50	0.0500	
	304	12.50	15.50	14.01	0.35	88	0.0284	
	341	12.00	17.50	14.77	0.68	66	0.0340	
	583	8.00	16.50	10.45	2.75	109	0.0119	
	646	12.00	17.50	14.17	0.77	89	0.0281	
	647	13.50	16.50	15.35	0.43	50	0.0320	
	740	11.50	21.00	15.64	6.17	52	0.0385	
	797	13.00	20.00	15.46	1.83	70	0.0343	
	875	10.00	12.50	11.13	0.23	57	0.0088	
	891	10.00	16.00	11.55	1.39	57	0.0123	
	917	12.00	18.50	15.42	1.34	85	0.0259	
	978	10.50	17.00	13.26	1.68	64	0.0234	
	1032	10.00	17.50	13.75	4.93	16	0.0344	
	1047	8.00	14.50	10.92	0.87	103	0.0136	
	1124	6.50	12.00	9.10	1.92	114	0.0061	
	1190	8.50	13.50	11.10	1.16	84	0.0125	
	1198	10.00	14.50	11.69	0.77	108	0.0139	
	1201	8.50	21.50	14.59	6.06	201	0.0147	
	1206	12.50	16.00	14.02	0.39	85	0.0259	
<i>Decapterus tabl</i>								
	22	12.00	19.00	16.40	2.19	52	0.0423	
	109	26.00	32.00	28.40	1.42	42	0.2262	
	584	12.00	38.00	27.49	15.49	51	0.2020	
	740	18.50	21.00	19.83	0.74	15	0.1000	
	880	13.00	34.00	26.19	32.51	52	0.1923	
	897	26.00	29.00	27.40	1.30	5	0.1600	
<i>Decapterus macarellus</i>								
	320	13.00	17.00	15.08	1.59	26	0.0308	
	323	15.00	20.00	16.96	1.34	95	0.0760	
	522	5.00	16.50	10.07	3.70	111	0.0117	
	563	11.00	14.00	12.02	0.39	31	0.0097	
	581	9.00	14.50	10.28	0.78	152	0.0092	
	583	8.00	12.00	9.79	0.72	100	0.0090	
	586	8.50	12.50	10.49	0.79	105	0.0105	
	648	8.00	13.50	11.10	0.76	78	0.0103	
	740	11.00	19.00	14.20	4.95	61	0.0320	
	876	10.00	16.50	10.89	0.87	118	0.0102	
	880	10.00	18.00	11.88	1.98	88	0.0136	
	891	8.50	17.00	11.81	2.82	134	0.0127	
	894	11.50	17.50	13.62	1.39	55	0.0200	

STATION	FAMILY/SPECIES	LENGTHS IN SAMPLE				VARIANCE	N	MEAN W.	STATION	LENGTHS IN SAMPLE				VARIANCE	N	MEAN W.
		LOWEST	HIGHEST	MEAN	LENGTH					LOWEST	HIGHEST	MEAN	LENGTH			
20	<i>Decapterus accorellus</i> (cont.)	24.50	28.50	26.74	1.40	23	0.1640	409	20.00	29.50	25.32	6.42	34	0.2059		
48	<i>Heatearax subvirgatus</i>	22.00	31.00	26.90	2.69	31	0.1995	514	17.00	22.00	19.65	0.73	89	0.0820		
59		19.50	27.50	22.96	3.59	28	0.1179	531	10.00	23.00	15.01	4.44	46	0.4370		
67		20.00	32.00	25.80	7.22	69	0.1638	533	23.00	29.00	26.66	2.18	41	0.2390		
72		21.50	30.50	26.17	3.10	68	0.1705	561	12.00	21.50	17.93	1.44	107	0.0645		
304		23.00	29.50	26.58	1.55	63	0.2063	580	17.50	27.00	20.53	5.84	46	0.0978		
328		19.00	28.00	24.50	3.84	29	0.2281	583	6.00	11.50	10.43	0.34	48	0.0115		
337		19.00	28.00	23.69	8.56	48	0.1354	600	20.00	26.00	23.20	1.67	46	0.1425		
345		18.00	28.50	21.74	4.30	108	0.0972	647	14.50	22.50	16.79	1.08	69	0.0507		
352		23.00	29.50	26.66	2.78	46	0.1913	737	18.00	22.00	19.86	0.88	59	0.0797		
353		23.50	28.50	26.80	2.49	15	0.2933	740	11.00	23.00	17.98	14.16	30	0.1167		
372		26.50	34.50	30.44	3.11	54	0.2778	766	18.50	23.50	20.21	1.84	14	0.0857		
375		13.36	18.50	15.94	1.63	36	0.0306	806	10.00	19.50	12.45	5.03	76	0.0237		
657		16.50	24.00	19.63	4.42	24	0.0786	876	10.00	21.00	17.14	6.41	95	0.0526		
921		23.50	29.00	26.38	1.86	50	0.1700	895	13.50	22.50	18.85	3.42	30	0.0800		
929		22.00	27.00	23.86	1.82	39	0.1333	911	21.00	26.00	24.05	1.97	11	0.1364		
956		19.00	29.00	21.29	3.48	45	0.0956	976	2.00	4.00	3.13	0.28	27	0.0259		
973		25.50	31.00	27.69	3.19	32	0.2168	978	10.00	19.00	16.23	7.36	13	0.0538		
982		20.50	29.00	22.94	4.82	35	0.1171	988	10.00	26.00	13.19	17.60	48	0.0271		
985		16.00	22.00	18.67	3.33	12	0.0623	991	6.00	22.00	13.80	29.55	60	0.0433		
987		21.00	25.00	22.80	2.84	10	0.1208	1032	10.00	24.50	18.29	26.44	29	0.0862		
991		27.00	29.00	28.35	0.67	11	0.2091	1046	12.00	21.50	13.80	3.18	48	0.0954		
992		26.90	30.50	28.33	3.00	9	0.2111	1112	9.50	16.00	14.65	1.33	55	0.0327		
997		29.00	34.00	30.74	2.20	19	0.2684	1144	13.00	26.00	20.84	4.80	83	0.1154		
638	<i>Oligoplites saliens</i>	31.00	55.00	45.61	26.33	46	0.6739	1156	9.00	20.00	14.14	5.63	108	0.0157		
9	<i>Selar crumenophthalmus</i>	19.00	25.00	20.37	2.42	14	0.1071	801	96.00	106.00	100.75	27.58	4	11.1750		
10		11.50	23.50	20.29	4.40	48	0.1073	813	40.00	96.00	65.00	32.00	6	3.9800		
12		19.00	25.00	21.04	2.36	29	0.1103	1197	24.00	36.00	34.58	8.90	26	0.4088		
18		18.50	22.00	19.61	0.63	50	0.0900	477	11.00	18.50	16.25	1.95	69	0.0652		
20		18.00	26.00	19.95	3.92	66	0.1015	26	42.00	50.00	45.67	11.87	6	1.1667		
21		18.00	21.00	19.08	0.51	54	0.0815	216	34.00	43.00	37.78	7.48	18	0.8111		
35		14.00	18.50	17.09	0.91	37	0.0568	272	32.00	45.00	39.53	11.55	15	0.8467		
36		12.00	23.00	16.75	2.54	53	0.0566	1128	38.00	36.00	33.94	3.80	16	0.5125		
57		14.50	19.00	15.73	1.05	81	0.0444	1156	31.00	38.00	34.76	4.69	21	0.5238		
66		13.50	23.50	20.39	5.43	14	0.1071	30	21.00	35.00	28.73	14.27	62	0.2993		
77		10.00	26.00	21.92	7.12	66	0.1167	60	38.00	41.00	39.25	1.58	4	0.5500		
80		17.00	25.00	20.93	5.50	29	0.1103	61	38.00	38.00	38.00		3	0.6000		
105		11.50	26.00	17.08	17.03	32	0.0719	92	20.00	41.00	33.43	45.19	54	0.4963		
171		16.00	22.50	18.73	2.00	75	0.0747	103	34.00	39.00	36.36	2.13	24	0.5958		
156		17.00	26.00	23.66	4.38	29	0.1690	113	16.00	22.00	19.80	2.17	56	0.1018		
265		21.00	29.00	25.07	2.99	27	0.2148	125	32.00	40.00	35.20	4.64	35	0.4171		
301		8.00	24.00	18.65	2.09	81	0.0802	216	28.00	34.00	31.31	2.78	26	0.4231		
302		16.50	21.50	17.94	2.70	49	0.0673	272	20.00	38.00	33.15	11.55	59	0.4407		
313		16.50	23.50	18.77	5.60	86	0.0814	303	24.00	30.00	28.00	2.75	25	0.2800		
314		13.50	25.50	16.64	0.59	67	0.0522	353	25.00	36.00	31.18	26.80	5	0.5000		
315		15.00	21.00	16.64	0.59	67	0.0522	376	16.00	42.00	34.69	25.99	36	0.4667		
335		9.50	16.50	14.85	3.63	20	0.0423	388	9.50	24.00	16.31	7.96	134	0.0560		
336		10.50	18.50	15.59	2.80	50	0.0500	402	8.50	12.00	10.09	1.13	34	0.0176		
346		13.50	22.50	19.35	4.91	47	0.06514	404	19.00	45.00	39.50	39.54	40	0.7000		
346		13.00	16.00	14.92	0.14	61	0.0574	406	39.00	44.00	41.57	1.23	42	0.7952		
364		12.00	24.50	15.32	2.50	55	0.0400									

FAMILY/SPECIES STATION LENGTHS IN SAMPLE
 LOWEST HIGHEST MEAN VARIANCE N MEAN W.

Selene setapinnis (cont.)

409	22.00	36.00	27.48	14.69	65	0.2846
929	16.00	29.50	25.39	11.69	28	0.2000
994	15.00	36.00	17.97	17.07	61	0.0787
996	14.00	26.00	21.65	18.87	23	0.1130
1003	12.00	37.00	19.27	33.17	84	0.1107
1009	12.00	18.00	15.43	1.93	54	0.0435
1019	8.00	46.00	23.33	239.52	12	0.2250
1020	23.00	39.00	30.17	17.97	24	0.3204
1024	31.00	35.00	32.78	2.69	9	0.4000
1025	14.00	37.00	21.00	21.37	64	0.1172
1028	13.00	36.00	27.80	27.81	46	0.2717
1034	16.00	37.00	26.61	24.85	80	0.2300
1050	13.00	17.50	14.78	1.06	30	0.0333
1145	11.00	25.00	18.00	15.68	57	0.0842

Selene spixii

50	32.00	39.00	34.70	4.01	10	0.5600
64	13.00	20.00	14.51	1.58	41	0.0415
77	13.00	28.00	17.80	19.73	10	0.0800
415	13.00	36.00	28.37	22.37	78	0.3115
455	27.00	35.00	33.07	3.23	27	1.1111
470	29.00	46.00	42.42	34.81	12	1.1883
527	23.00	35.00	28.25	7.38	28	0.2857
528	23.00	31.50	26.96	6.63	14	0.2143
553	14.00	17.00	15.08	0.50	42	0.0333
570	27.00	39.00	33.57	9.08	30	0.3333
572	12.00	16.50	13.39	1.58	61	0.0279
590	10.50	21.00	12.65	2.44	58	0.0233
625	8.00	13.50	9.99	1.32	85	0.0129
669	12.00	23.00	15.91	9.37	35	0.0514
679	10.00	20.00	13.09	4.23	62	0.0339
861	14.00	23.50	18.87	5.09	42	0.0845
872	10.00	42.00	17.38	19.92	116	0.0733
897	19.50	22.50	20.54	0.54	55	0.0927
1120	24.00	36.00	29.53	7.27	15	0.4333

Trachinotus carolinus

720	26.00	44.00	38.31	46.06	13	0.6154
1019	19.00	26.00	20.77	4.19	13	0.1800

Trachurus lathami

8	17.00	26.00	21.08	4.42	36	0.0944
10	18.00	29.50	21.11	4.57	63	0.0984
18	17.00	29.00	20.22	8.64	34	0.0882
20	9.00	19.00	10.81	1.63	73	0.0151
21	12.00	22.50	18.25	4.53	34	0.0647
22	5.50	20.00	9.93	1.93	93	0.0108
32	10.00	27.00	16.22	21.79	37	0.0541
33	17.50	21.50	19.28	0.58	62	0.0694
34	9.50	11.00	10.17	0.21	110	0.0091
35	12.00	22.00	16.30	14.86	33	0.0394
36	10.00	26.00	14.96	16.00	56	0.0405
57	15.50	26.50	21.32	5.59	37	0.1027
58	19.50	29.00	25.02	5.78	27	0.1407
104	32.00	38.00	35.23	2.19	13	0.4000
109	22.00	29.00	26.04	1.49	104	0.1635
110	10.00	18.00	11.53	2.82	68	0.0044

FAMILY/SPECIES STATION LENGTHS IN SAMPLE
 LOWEST HIGHEST MEAN VARIANCE N MEAN W.

Trachurus lathami (cont.)

122	23.00	40.00	28.93	3.26	85	0.2171
123	15.00	37.00	30.00	10.71	35	0.2229
140	23.00	31.00	27.63	2.95	35	0.1657
141	7.00	9.50	7.87	0.27	213	0.0042
143	14.00	31.00	25.84	7.26	92	0.1663
144	17.00	29.00	24.05	10.25	79	0.1392
147	16.00	26.00	22.13	6.23	123	0.1057
151	19.00	30.00	25.20	4.33	95	0.1474
160	18.00	32.50	21.78	14.08	49	0.0990
168	18.50	30.00	25.62	4.52	65	0.1646
183	17.00	34.00	28.64	27.44	36	0.2417
197	15.00	32.00	27.78	6.78	64	0.2266
256	16.00	26.00	20.79	3.92	33	0.1000
301	14.00	16.00	15.01	0.28	86	0.0407
302	13.50	23.00	15.88	5.21	148	0.0439
313	12.50	17.00	14.10	0.47	77	0.0286
315	13.00	22.00	14.31	1.34	86	0.0314
316	21.00	26.00	23.04	1.29	28	0.1214
317	12.50	19.50	13.97	2.09	61	0.0279
348	13.00	23.50	14.41	3.23	48	0.0250
408	31.00	37.00	34.07	1.79	45	0.3333
409	19.00	35.00	30.62	27.42	13	0.3077
458	12.00	14.50	13.41	0.24	82	0.0244
460	11.00	14.50	13.15	0.33	55	0.0273
469	11.00	14.00	12.06	0.25	127	0.0181
471	12.00	27.00	14.44	9.56	79	0.0266
474	8.50	14.00	11.33	1.37	97	0.0170
480	13.00	34.00	29.39	16.33	69	0.1797
483	19.00	29.00	23.90	6.79	50	0.1300
495	12.00	26.50	13.95	6.29	73	0.0274
496	12.50	27.00	21.08	5.44	39	0.0769
499	22.50	31.50	26.01	2.07	89	0.1020
501	13.00	31.00	22.24	9.67	59	0.1060
502	20.00	29.00	26.71	2.31	85	0.1729
505	10.50	15.00	12.67	0.45	90	0.0200
513	8.50	12.00	10.09	0.44	152	0.0105
530	7.50	14.50	10.56	4.51	106	0.0160
536	10.50	21.00	12.24	2.79	99	0.0192
537	10.50	12.50	11.31	0.21	97	0.0134
554	12.00	14.00	13.01	0.16	73	0.0219
562	11.00	14.50	11.76	0.43	90	0.0167
571	10.00	13.00	11.80	0.32	113	0.0131
572	9.50	13.50	11.71	0.46	128	0.0156
611	14.00	23.00	16.69	5.91	59	0.0492
696	12.50	16.50	15.14	0.50	59	0.0322
737	14.00	36.00	26.97	40.80	37	0.2162
738	13.50	18.00	15.20	0.64	96	0.0333
750	14.00	17.50	15.26	0.32	95	0.0264
754	14.00	16.00	15.02	0.19	96	0.0354
763	13.00	15.00	13.81	0.10	69	0.0246
764	13.00	15.00	13.88	0.29	67	0.0239
765	22.00	31.00	26.43	3.67	60	0.1500
769	24.50	29.50	27.66	0.91	73	0.1740
773	11.50	14.00	12.62	0.31	147	0.0194

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
Trachurus lathami (cont.)								
	781	12.00	15.50	13.93	0.29	75	0.0253	
	784	13.00	15.00	13.75	0.21	73	0.0274	
	787	10.50	13.00	12.11	0.23	75	0.0153	
	788	13.50	16.00	14.33	0.14	56	0.0286	
	792	25.00	32.00	28.82	2.62	25	0.2080	
	793	13.50	16.00	15.09	0.38	49	0.0306	
	806	9.50	16.00	12.32	3.97	63	0.0238	
	824	20.50	31.00	27.81	9.74	18	0.2222	
	839	12.00	15.00	13.49	0.39	35	0.0286	
	865	11.00	13.50	12.49	0.23	60	0.0250	
	866	11.50	14.50	12.39	0.31	90	0.0167	
	870	11.00	14.00	12.57	0.27	94	0.0149	
	871	10.50	14.50	12.74	0.34	86	0.0169	
	873	11.00	14.50	12.84	0.55	119	0.0181	
	874	10.50	14.00	12.06	0.45	89	0.0146	
	876	10.00	13.00	11.29	0.39	115	0.0139	
	887	10.50	12.50	11.22	0.18	67	0.0194	
	923	15.00	32.00	17.36	6.55	45	0.0444	
	930	15.00	30.00	24.33	14.68	49	0.1490	
	931	13.00	30.00	15.45	6.22	154	0.0390	
	934	14.00	18.00	14.71	0.61	77	0.0312	
	955	14.50	28.50	15.96	1.39	35	0.0457	
	1021	29.00	48.00	35.63	3.27	67	0.3657	
	1055	18.50	25.00	21.26	3.87	87	0.0943	
	1113	14.00	24.00	19.28	8.25	72	0.0625	
	1118	25.00	28.50	26.81	0.68	51	0.1667	
	1155	12.00	15.00	14.02	0.33	52	0.0260	
	1176	11.00	16.50	14.34	0.67	58	0.0276	
	1189	12.00	15.50	13.28	0.29	138	0.0217	
	1195	12.00	26.00	20.53	11.46	108	0.0778	
CENTROPOMIDAE								
Centroponus undecimalis								
	369	65.00	66.00	65.50	0.50	2	4.5000	
Centroponus parallelus								
	75	50.00	53.00	51.67	2.33	3	1.4667	
	76	39.00	45.00	42.00	6.00	4	0.9000	
	95	23.00	43.00	37.31	25.70	16	0.6500	
CLUPEIDAE								
Chirocentron bleakerianus								
	94	6.50	11.00	9.38	0.44	148	0.0020	
	124	7.00	11.00	9.20	1.10	173	0.0016	
	624	4.00	10.50	8.50	0.65	106	0.0047	
	701	6.50	10.00	8.71	0.62	96	0.0068	
	707	6.00	10.50	7.51	1.32	177	0.0040	
	859	4.00	8.00	5.85	0.62	73	0.0014	
	860	4.50	9.50	7.71	2.42	26	0.0038	
	861	5.00	8.50	5.91	0.39	98	0.0011	
	872	7.00	11.00	8.67	0.62	117	0.0021	
	928	7.00	9.50	8.04	0.24	68	0.0029	
	969	5.00	10.00	7.45	1.38	69	0.0028	
	1017	6.50	11.00	8.48	0.99	84	0.0048	
	1019	5.50	9.50	7.41	0.48	137	0.0032	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
Chirocentron bleakerianus (cont.)								
	1029	6.50	10.00	8.01	0.46	87	0.0034	
	1031	6.00	9.00	7.36	0.22	90	0.0056	
	1056	6.50	10.50	8.10	0.61	97	0.0041	
	1059	5.50	8.50	7.15	0.45	65	0.0023	
	1072	5.50	10.50	7.42	0.65	65	0.0029	
	1182	5.50	10.50	6.82	0.92	135	0.0023	
Etrumeus teres								
	137	5.00	9.50	7.07	0.72	77	0.0026	
	141	6.50	10.00	8.72	0.24	97	0.0052	
	224	14.00	17.50	15.35	0.90	23	0.0391	
	235	6.50	9.50	7.58	0.27	78	0.0032	
	470	10.50	13.50	12.14	0.31	142	0.0141	
	473	11.00	14.50	12.94	0.24	97	0.0175	
	475	12.00	15.00	13.18	0.38	115	0.0183	
	489	10.00	13.00	11.34	0.32	175	0.0131	
	735	12.50	16.50	14.00	0.42	159	0.0233	
	759	11.50	16.00	13.12	0.58	156	0.0179	
	760	12.50	15.00	13.42	0.31	64	0.0184	
	775	13.00	14.50	13.68	0.12	71	0.0211	
	782	12.00	16.00	13.05	0.60	56	0.0161	
	787	13.00	16.00	13.78	0.41	67	0.0194	
	832	11.00	14.00	12.31	0.29	163	0.0153	
	875	13.00	15.00	14.03	0.17	38	0.0184	
	891	13.00	18.00	14.73	0.74	105	0.0257	
Harengula jaquana								
	59	11.50	16.00	12.74	0.85	48	0.0375	
	78	9.50	15.00	11.51	1.58	84	0.0202	
	105	7.00	11.00	8.57	0.38	79	0.0077	
	129	11.00	18.00	14.31	3.05	54	0.0370	
	131	11.00	18.00	16.01	1.47	71	0.0577	
	132	11.00	18.00	14.83	7.86	21	0.0381	
	133	10.50	18.00	13.85	4.21	79	0.0329	
	311	10.50	13.50	11.26	0.35	78	0.0192	
	351	12.00	15.00	13.85	0.51	75	0.0400	
	352	11.50	18.00	14.77	1.87	130	0.0346	
	353	11.50	15.50	13.40	0.73	76	0.0329	
	357	10.00	14.00	11.14	0.32	67	0.0164	
	365	10.00	13.50	11.16	0.33	64	0.0156	
	378	13.50	18.00	15.31	0.95	63	0.0476	
	624	11.00	14.50	12.41	1.09	41	0.0244	
	640	11.00	16.00	13.49	1.79	65	0.0354	
	679	11.00	15.00	13.19	1.10	75	0.0267	
	690	8.50	17.50	10.92	3.82	155	0.0161	
	739	12.00	19.00	15.34	2.14	85	0.0659	
	752	11.00	18.00	14.50	4.47	31	0.0484	
	756	10.50	18.00	12.71	3.76	68	0.0250	
	774	11.00	18.00	12.81	3.47	72	0.0215	
	975	10.50	17.00	13.48	2.48	64	0.0266	
	995	10.50	15.50	13.38	1.12	64	0.0281	
	999	10.00	15.00	12.21	1.26	48	0.0229	
	1003	11.50	16.00	13.56	0.90	40	0.0325	
	1017	8.00	15.50	11.98	3.50	82	0.0213	
	1030	9.50	19.50	14.92	5.79	55	0.0618	
	1032	5.00	11.50	6.14	0.88	99	0.0040	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Pellona harroweri</i> (cont.)	975	10.50	15.50	12.66	1.33	74	0.0230
	975	4.00	9.00	6.14	1.29	88	0.0032
	999	3.00	11.00	6.87	4.58	54	0.0048
	1003	10.50	17.50	13.25	2.73	55	0.0282
	1003	3.00	12.50	7.45	5.69	198	0.0056
	1015	3.50	7.50	5.30	1.26	70	0.0019
	1029	4.00	13.50	6.58	8.13	51	0.0049
	1030	9.50	16.50	12.20	3.55	108	0.0324
	1039	5.00	13.50	8.94	5.13	52	0.0231
	1059	4.00	6.00	4.99	0.27	90	0.0013
	1060	3.00	11.50	5.44	2.37	76	0.0020
	1061	15.50	18.50	16.94	0.30	74	0.0045
	1074	4.00	18.00	9.80	13.90	69	0.0217
	1074	3.00	7.00	4.63	0.66	102	0.0013
	1083	10.50	18.00	13.74	2.11	121	0.0256

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Sardinella aurita</i>	22	14.00	20.50	17.49	1.43	58	0.0466
	23	14.00	17.00	15.54	0.50	41	0.0341
	32	15.00	19.00	16.71	0.81	51	0.0529
	33	16.00	21.00	17.99	0.91	56	0.0500
	34	12.50	19.00	15.22	2.21	116	0.0276
	37	9.00	12.50	10.49	0.35	99	0.0091
	49	5.50	8.50	7.92	0.51	19	0.0053
	52	7.50	11.00	9.38	0.78	73	0.0082
	53	11.50	18.00	13.42	1.59	30	0.0117
	55	8.00	17.00	13.87	2.32	120	0.0233
	57	13.50	18.50	16.04	1.40	62	0.0371
	66	8.00	18.00	15.46	7.68	52	0.0346
	100	6.00	11.50	7.70	2.47	23	0.0043
	122	17.00	23.00	20.16	1.79	75	0.0787
	125	17.00	23.00	20.36	1.50	119	0.0798
	128	5.00	10.50	8.36	0.39	157	0.0045
	129	18.00	23.00	20.21	1.30	116	0.0802
	131	17.00	23.00	19.79	1.20	96	0.0719
	133	16.50	21.00	18.74	1.25	41	0.0634
	136	10.50	21.50	14.94	4.47	104	0.0309
	137	5.50	12.00	8.35	1.62	106	0.0057
	142	17.00	24.00	19.61	2.70	45	0.0600
	154	16.00	24.00	20.79	3.74	86	0.0756
	155	8.50	10.50	9.56	0.13	142	0.0109
	165	4.00	18.50	13.90	5.82	61	0.0246
	169	7.00	12.00	9.34	1.26	193	0.0073
	182	16.50	21.50	18.95	0.99	99	0.0662
	203	11.00	14.50	12.62	0.50	103	0.0165
	210	8.00	15.00	10.58	0.82	68	0.0103
	212	4.00	6.50	5.14	0.32	134	0.0011
	281	12.00	18.00	14.98	1.96	73	0.0274
	282	10.00	16.50	12.41	2.27	239	0.0146
	306	15.50	18.00	16.67	0.57	33	0.0515
	315	16.00	21.50	17.75	1.03	72	0.0486
	318	13.00	18.50	17.00	1.04	64	0.0297
	320	15.50	20.00	18.20	1.05	38	0.0632
	334	16.00	20.00	17.79	0.93	39	0.0513
	341	12.00	18.50	15.82	1.13	82	0.0354

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Sardinella aurita</i> (cont.)	353	4.50	7.00	5.59	0.29	97	0.0015
	363	16.00	25.00	18.86	2.21	39	0.0615
	464	16.00	24.00	20.66	2.25	125	0.0960
	465	18.00	23.00	20.11	0.76	231	0.0935
	469	12.50	17.50	14.35	0.48	186	0.0226
	474	12.00	24.00	19.85	4.23	49	0.0755
	475	12.00	22.50	17.26	5.31	192	0.0479
	494	17.00	21.00	18.51	1.11	40	0.0650
	521	13.50	22.00	18.10	4.11	54	0.0556
	548	12.00	21.00	15.57	3.93	51	0.0343
	550	16.50	22.50	18.99	0.76	89	0.0596
	554	16.00	26.00	18.09	1.10	111	0.0541
	564	10.50	15.00	12.26	0.78	89	0.0135
	581	10.50	16.00	12.10	0.86	142	0.0134
	583	10.00	18.50	14.08	3.17	113	0.0204
	586	11.00	16.00	13.49	0.93	103	0.0233
	587	16.00	21.00	19.00	0.84	44	0.0659
	588	7.50	16.00	13.42	2.16	97	0.0195
	619	14.00	18.50	16.08	1.02	51	0.0333
	646	13.50	19.50	16.61	1.90	109	0.0394
	647	14.50	20.00	16.82	1.42	59	0.0424
	739	18.50	27.00	21.66	1.09	128	0.0820
	740	15.00	22.00	19.05	1.39	103	0.0558
	741	13.00	22.00	18.87	1.84	41	0.0585
	747	13.50	21.00	15.36	4.86	35	0.0371
	748	16.00	22.50	18.98	2.66	92	0.0598
	750	16.50	23.50	20.15	2.68	198	0.0682
	754	13.50	23.00	18.81	4.42	101	0.0500
	755	17.50	24.00	20.33	1.47	136	0.0706
	756	10.00	24.00	20.18	3.94	201	0.0667
	757	16.45	23.50	18.98	2.43	91	0.0538
	768	13.00	20.00	16.19	1.60	158	0.0392
	772	15.50	19.00	16.67	0.83	68	0.0397
773	13.00	17.50	14.81	0.71	146	0.0267	
774	12.00	18.50	14.22	2.01	66	0.0227	
781	14.00	18.50	15.69	1.29	32	0.0281	
784	16.00	21.50	18.96	1.87	69	0.0609	
787	13.00	19.50	15.31	1.49	76	0.0289	
793	19.00	25.00	21.39	1.53	40	0.0613	
797	15.00	21.00	17.79	1.67	114	0.0518	
799	18.00	23.00	20.13	0.95	58	0.0690	
836	14.50	20.50	16.48	1.68	58	0.0345	
841	11.00	25.50	16.80	21.94	97	0.0500	
864	16.50	21.50	18.91	1.70	69	0.0580	
875	7.50	13.50	9.67	2.08	99	0.0051	
876	7.50	19.00	12.57	1.89	82	0.0146	
880	12.00	17.50	14.22	1.24	96	0.0204	
886	10.00	15.50	12.82	1.00	72	0.0133	
887	11.00	16.50	12.88	1.11	75	0.0147	
891	9.50	16.00	12.44	1.02	104	0.0125	
894	10.50	18.50	14.81	1.55	56	0.0268	
895	13.50	20.50	17.23	3.00	64	0.1875	
930	21.00	26.50	23.30	1.85	22	0.1182	
934	16.00	20.00	17.26	0.82	46	0.0435	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Sardinella aurita</i> (cont.)							
	952	15.00	19.00	16.97	0.95	17	0.0529
	958	4.50	10.50	6.95	1.65	184	0.0035
	970	4.00	7.00	5.68	0.28	107	0.0013
	976	3.50	7.00	4.95	0.49	129	0.0011
	978	15.00	18.00	16.26	0.87	19	0.0368
	979	15.00	21.00	17.93	0.98	75	0.0520
	984	4.50	7.50	6.08	0.41	119	0.0018
	994	4.50	7.00	5.47	0.41	59	0.0015
	998	3.00	6.50	4.61	0.38	197	0.0010
	999	3.50	6.50	4.43	0.34	51	0.0010
	1032	4.50	9.50	6.65	1.56	23	0.0022
	1078	17.00	22.50	19.78	0.95	53	0.0679
	1080	10.00	22.00	19.45	0.77	51	0.0610
	1082	15.50	23.00	18.10	2.72	73	0.0438
	1083	15.00	23.50	18.87	5.17	69	0.0464
	1083	5.50	10.00	6.94	0.77	50	0.0030
	1085	5.50	9.00	7.08	0.90	52	0.0029
	1086	13.50	18.50	16.22	0.44	79	0.0380
	1088	18.00	23.00	20.92	1.79	36	0.0681
	1088	9.00	22.00	12.59	7.75	119	0.0197
	1108	6.00	19.50	8.27	2.97	68	0.0056
	1109	11.00	21.00	17.45	1.50	113	0.0407
	1111	8.50	14.50	10.10	0.68	132	0.0091
	1112	4.50	17.00	13.71	3.32	115	0.0217
	1113	17.50	23.00	19.34	1.02	44	0.0500
	1124	8.00	13.50	11.13	1.06	102	0.0113
	1128	3.00	12.00	4.89	2.55	129	0.0013
	1173	18.00	24.50	22.14	2.60	22	0.0773
	1173	8.00	12.50	11.17	1.79	12	0.0042
	1175	12.00	28.00	21.43	19.38	91	0.0890
	1176	14.00	20.50	18.45	2.31	32	0.0484
	1190	8.00	13.50	10.97	1.22	104	0.0106
	1198	11.00	15.00	12.77	1.01	103	0.0194
ELOPIDAE							
<i>Elops saurus</i>							
	850	48.00	63.00	56.89	23.86	9	1.0000
ENGRAULIDAE							
<i>Anchoviella</i> sp							
	15	6.50	9.00	7.42	0.29	153	0.0052
	27	7.00	10.00	8.01	0.32	56	0.0045
	30	4.50	8.00	7.26	0.20	147	0.0024
	93	6.00	8.00	7.48	0.16	161	0.0034
	203	9.50	12.00	10.56	0.22	118	0.0127
	204	9.50	11.50	10.38	0.24	77	0.0078
	969	4.50	7.00	5.77	0.31	44	0.0011
	998	4.00	6.00	4.93	0.21	197	0.0013
	999	4.50	7.00	5.78	0.37	82	0.0024
<i>Anchoviella lepidentostole</i>							
	338	7.00	10.00	8.42	0.84	45	0.0089
	370	5.50	11.50	7.77	1.24	134	0.0052
	476	8.00	15.00	10.21	2.66	198	0.0096
	493	7.00	9.00	8.13	0.18	104	0.0043

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Anchoviella lepidentostole</i> (cont.)							
	762	9.50	12.50	11.41	0.32	93	0.0102
	841	7.50	11.50	9.55	0.78	99	0.0076
	862	9.00	12.00	10.39	0.40	100	0.0088
	868	9.00	11.50	10.14	0.40	53	0.0057
	987	5.50	8.00	7.07	0.27	93	0.0030
	998	4.00	9.50	6.77	1.19	32	0.0047
	999	6.00	8.50	7.17	0.25	49	0.0043
	1002	5.00	8.00	6.58	0.58	33	0.0039
	1005	6.50	9.50	7.37	0.41	71	0.0032
	1015	6.50	10.00	7.88	0.72	70	0.0043
	1016	6.50	9.50	8.25	0.68	93	0.0048
	1030	8.00	11.50	9.96	0.55	68	0.0132
	1050	7.50	10.00	8.57	0.36	68	0.0059
	1057	5.50	8.00	6.57	0.20	108	0.0023
<i>Anchoviella brevirostris</i>							
	1057	5.50	6.50	5.84	0.08	99	0.0016
	1061	5.50	7.00	5.88	0.21	38	0.0021
<i>Anchoviella portfasciata</i>							
	1141	8.00	10.00	8.95	0.17	145	0.0021
	1156	10.00	12.00	10.60	0.24	98	0.0041
<i>Anchoa</i> sp							
	25	4.50	9.00	5.94	1.51	157	0.0032
	29	4.50	6.00	5.55	0.11	76	0.0039
	38	7.00	9.00	7.64	0.13	97	0.0031
	999	4.00	7.00	5.88	0.49	137	0.0015
	1181	5.00	6.00	5.51	0.05	74	
<i>Anchoa spinifer</i>							
	38	8.00	12.50	10.28	0.85	84	0.0155
	62	7.00	16.00	11.93	3.01	87	0.0161
	69	7.00	16.50	10.83	3.42	111	0.0117
	70	6.50	15.00	10.49	3.82	73	0.0096
	85	4.50	17.00	10.97	5.67	123	0.0114
	101	6.50	18.00	9.58	5.63	58	0.0097
	121	4.50	8.00	6.38	0.44	155	0.0019
	174	9.00	14.50	12.39	1.15	35	0.0129
	240	9.00	13.00	10.83	0.95	58	0.0086
	309	9.50	22.00	15.21	5.35	90	0.0389
	356	12.00	19.00	15.25	2.93	38	0.0395
	375	5.00	16.00	10.03	4.12	96	0.0094
	543	4.50	14.00	8.48	4.91	234	0.0068
	1006	8.00	19.50	12.69	8.35	44	0.0136
	1060	5.50	12.00	7.00	1.87	118	0.0028
	1076	6.00	12.00	8.49	2.13	42	0.0060
	1182	11.00	12.50	12.08	0.19	20	0.0100
<i>Anchoa filifera</i>							
	29	6.50	8.00	7.42	0.10	123	0.0041
	747	8.00	11.00	8.91	0.39	90	0.0056
	869	4.50	7.00	5.51	0.26	72	0.0014
	861	5.00	8.00	5.95	0.33	83	0.0014
<i>Anchoa lyolepis</i>							
	105	4.00	6.50	5.22	0.29	122	0.0008
	118	5.00	7.50	6.34	0.34	101	0.0015
	124	11.00	14.00	12.10	0.42	80	0.0138
	128	5.00	9.00	6.64	0.44	211	0.0019

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Anchoa mitchelli</i> (cont.)	212	6.00	7.50	6.44	0.15	88	0.0017
	243	6.00	7.50	6.72	0.09	107	0.0019
	494	7.50	12.50	11.10	0.84	86	0.0163
	549	9.00	11.50	10.67	0.33	77	0.0078
	556	10.00	12.50	11.25	0.24	81	0.0111
	632	6.00	8.00	6.67	0.10	128	0.0023
	767	5.00	9.00	7.24	0.25	145	0.0021
	832	9.00	12.00	10.54	0.32	231	0.0087
	969	3.00	6.00	4.88	0.41	45	0.0009
	<i>Anchoa parva</i>	758	5.50	8.00	7.20	0.14	138	0.0029
<i>Anchoa cayana</i>	1029	5.50	7.00	6.24	0.25	42	0.0017
<i>Anchoa lamprotaenia</i>	1108	6.00	8.00	6.94	0.18	113	0.0024
	1180	5.00	6.50	5.64	0.10	113	0.0014
<i>Anchoa hepsetus</i>	29	5.50	9.00	7.42	0.34	94	0.0053
	38	7.00	10.00	8.03	0.25	106	0.0047
	44	5.00	9.50	6.88	0.76	236	0.0034
	46	6.50	10.00	8.06	0.46	85	0.0047
	59	7.00	10.00	8.49	0.37	85	0.0071
	60	5.50	9.00	6.92	0.36	144	0.0031
	63	5.50	8.50	6.62	0.37	128	0.0027
	93	7.50	10.50	8.34	0.35	96	0.0130
	100	7.00	10.50	8.12	0.23	106	0.0066
	165	9.00	12.00	10.50	0.27	84	0.0083
	257	10.00	12.00	10.98	0.17	55	0.0109
	428	5.50	7.50	6.31	0.18	117	0.0026
	632	6.00	8.00	6.72	0.20	233	0.0026
	747	8.50	13.00	10.75	0.49	79	0.0095
	855	6.00	7.50	6.61	0.15	123	0.0018
	856	6.00	8.50	7.07	0.17	100	0.0020
	1088	8.00	12.50	10.10	0.55	85	0.0071
1173	8.50	11.50	9.53	0.29	87	0.0057	
<i>Cetengraulis edentulus</i>	294	10.50	13.50	12.15	0.63	44	0.0273
<i>Engraulis eurystole</i>	30	5.00	9.00	7.70	0.25	108	0.0028
	103	4.00	9.50	6.38	0.80	141	0.0035
	118	6.50	9.00	7.77	0.34	100	0.0020
	121	5.00	9.00	6.95	0.69	108	0.0034
	128	6.00	10.50	8.69	0.71	175	0.0046
	137	6.50	10.50	8.95	0.68	96	0.0052
	155	9.50	15.50	12.00	0.52	116	0.0065
	210	6.50	10.50	8.20	0.28	88	0.0045
	224	10.00	11.50	10.71	0.14	56	0.0107
	228	9.50	11.50	10.37	0.21	84	0.0083
	235	7.50	9.50	8.38	0.31	65	0.0031
	252	7.00	12.00	10.79	0.28	151	0.0106
	257	9.00	11.00	10.31	0.21	60	0.0183
	270	7.50	10.50	9.68	0.49	80	0.0063
	325	12.00	14.00	12.75	0.20	61	0.0164
	489	9.50	12.50	11.16	0.43	167	0.0138

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE						
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.	
<i>Engraulis eurystole</i> (cont.)	493	9.00	10.50	9.98	0.15	126	0.0079	
	498	2.50	5.00	3.68	0.37	111		
	549	8.00	12.00	10.40	0.30	105	0.0057	
	739	6.50	9.00	7.77	0.27	33	0.0045	
	1029	5.00	8.50	6.57	0.70	28	0.0025	
	1032	4.50	6.50	5.59	0.13	81	0.0011	
	1085	5.50	8.00	7.06	0.28	78	0.0026	
	1111	10.00	12.50	11.23	0.27	94	0.0101	
	<i>Lycengraulis grossidens</i>	291	9.00	18.00	13.82	4.15	44	0.0227
		848	11.00	19.50	15.41	4.08	37	0.0405
EPHIPPIIDAE								
<i>Chaetodipterus taber</i>	40	39.00	48.00	42.63	4.55	27	1.9519	
GERREIIDAE								
<i>Diapterus rhombeus</i>	47	19.00	24.00	22.33	1.06	30	0.2167	
	295	10.50	15.00	12.58	0.94	64	0.0391	
	485	14.50	22.50	19.67	3.07	53	0.1340	
	666	18.00	24.00	21.79	1.82	76	0.1776	
	770	18.50	24.50	22.19	1.24	108	0.1963	
<i>Eucinostomus</i> sp.	1163	5.00	10.00	6.66	0.72	83	0.0036	
<i>Eucinostomus argenteus</i>	515	12.50	17.00	14.53	0.87	102	0.0490	
	518	12.00	15.50	13.87	0.47	103	0.0383	
	519	12.50	16.00	14.05	0.39	143	0.0385	
	529	12.50	18.00	15.22	0.94	111	0.0564	
	565	14.00	20.00	16.87	2.32	38	0.0658	
	583	12.00	17.00	13.52	3.14	44	0.0159	
	591	12.50	17.00	15.00	1.33	85	0.0494	
	595	12.50	16.50	14.18	0.78	73	0.0397	
	600	11.00	16.00	14.00	0.81	70	0.0429	
	604	12.00	15.00	13.33	0.60	87	0.0310	
	606	11.00	15.50	12.99	0.83	152	0.0309	
	609	9.50	16.00	11.63	0.83	139	0.0266	
	621	14.00	22.00	16.65	2.32	115	0.0687	
	622	11.00	16.00	12.81	1.66	53	0.0321	
	627	10.00	13.00	11.59	0.35	61	0.0246	
	630	8.50	13.00	11.10	0.67	107	0.0215	
	631	6.00	11.50	9.45	1.52	74	0.0135	
	643	5.50	11.50	8.61	1.98	120	0.0100	
	651	9.00	21.00	16.40	3.72	93	0.0845	
	763	13.00	17.00	15.31	0.50	86	0.0465	
	764	14.00	17.00	15.60	0.66	40	0.0500	
	769	12.50	18.50	15.09	1.80	121	0.0479	
	806	12.00	16.50	14.24	0.81	80	0.0438	
	814	12.00	15.50	13.99	0.42	90	0.0361	
	818	13.00	19.00	15.14	0.81	105	0.0524	
	825	11.00	18.00	14.38	1.49	124	0.0444	
	828	10.00	17.50	15.27	2.03	41	0.0512	
	865	11.50	16.00	12.88	0.96	34	0.0382	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Eucinostonus argenteus (cont.)							
	883	11.00	19.50	15.40	5.44	115	0.0491
	885	11.50	15.50	13.19	0.58	91	0.0297
	894	12.00	15.50	14.17	0.60	45	0.0333
	902	9.00	16.00	11.33	4.08	86	0.0209
	904	10.00	15.50	12.87	1.92	118	0.0280
	905	11.50	16.00	14.07	0.67	105	0.0381
	906	10.00	20.00	13.50	2.58	113	0.0354
	910	10.00	15.00	12.98	1.39	54	0.0279
	914	10.50	15.00	13.00	0.90	125	0.0312
	926	11.50	18.00	13.87	1.77	90	0.0578
	939	11.50	16.00	13.69	1.76	70	0.0414
	1207	11.00	16.00	13.69	1.34	90	0.0389
Eucinostonus gula							
	231	6.00	15.00	10.40	5.71	84	0.0179
	277	11.00	16.50	13.60	1.89	43	0.0372
	628	18.00	21.00	18.94	0.56	33	0.1000
LOBSTERS							
Metaneprops binghami							
	139	7.00	16.00	13.16	4.84	69	0.0420
	1093	11.00	18.00	14.64	3.32	25	0.0420
	1094	11.00	19.00	14.68	2.83	55	0.0436
LUTJANIDAE							
Lutjanus synagris							
	13	30.00	36.00	32.83	3.97	12	0.4750
	25	34.00	43.00	37.88	7.84	8	0.8000
	27	15.00	44.00	36.60	27.04	204	0.6922
	39	22.00	44.00	34.43	25.49	14	0.6107
	40	19.00	32.00	25.17	30.57	6	0.2667
	47	15.00	43.00	27.43	112.26	14	0.4286
	49	14.00	39.00	25.14	84.90	14	0.2929
	60	10.00	46.00	25.20	98.84	10	0.3209
	66	22.00	38.00	31.50	24.00	8	0.4750
	195	37.00	48.00	41.24	5.69	21	1.0714
	203	34.00	41.00	37.25	7.36	8	0.7000
	205	14.00	38.00	30.27	23.10	30	0.4467
	210	27.00	35.00	31.05	7.10	20	0.5075
	213	32.00	37.00	35.00	4.00	6	0.6000
	214	24.00	37.00	33.36	10.07	25	0.5800
	215	30.00	45.00	35.38	23.09	13	0.5846
	216	30.00	40.00	35.56	4.41	50	0.7040
	220	9.00	38.00	27.20	72.33	25	0.4320
	234	22.00	37.00	29.13	21.12	15	0.3133
	247	17.00	43.00	29.56	10.92	82	0.2902
	259	27.00	38.00	32.26	6.75	34	0.5000
	266	32.00	38.00	34.85	5.47	13	0.6769
	271	27.00	38.00	33.36	15.45	11	0.6000
	272	28.00	30.00	29.33	1.33	3	0.4333
	274	25.00	41.00	34.00	21.75	9	0.6222
	276	29.00	45.00	36.44	12.20	43	0.6395
	277	27.00	37.00	33.10	12.99	10	0.4900
	289	15.00	22.00	17.00	5.33	7	0.0714
	290	9.00	30.00	21.25	63.36	8	0.1875

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Lutjanus synagris (cont.)							
	291	14.00	24.00	17.15	4.08	23	0.0870
	293	16.00	21.00	18.27	1.78	15	0.0933
	297	18.50	21.00	19.57	1.12	7	0.1000
	306	32.00	37.00	34.50	12.50	2	0.7500
	307	23.00	41.00	35.78	28.38	41	0.6756
	312	14.00	33.00	22.24	21.91	37	0.1730
	322	39.00	49.00	43.00	8.00	9	1.2222
	327	20.00	41.00	35.41	13.54	32	0.7063
	329	19.00	43.00	31.84	46.51	87	0.5793
	331	17.00	23.50	20.55	2.35	47	0.0851
	337	27.00	49.00	39.40	23.65	65	0.9846
	342	12.00	35.00	20.95	52.63	56	0.2679
	426	16.00	36.00	27.48	15.40	153	0.3203
	434	21.00	41.00	29.42	33.98	45	0.4444
	435	13.00	42.00	26.05	33.97	77	0.3325
	451	17.00	41.00	28.23	40.28	43	0.4186
	520	23.00	39.00	31.89	26.34	18	0.4722
	521	30.00	40.00	35.81	3.44	37	0.6054
	529	24.00	40.00	33.92	11.91	38	0.5868
	554	21.00	43.00	29.62	30.17	26	0.4009
	564	22.00	41.00	33.78	27.68	41	0.5366
	565	18.00	44.00	33.53	20.26	30	0.4809
	569	30.00	43.00	37.36	11.79	14	0.6786
	571	35.00	45.00	40.27	6.02	11	0.7273
	574	23.00	39.00	29.28	15.16	39	0.8205
	575	26.00	39.00	34.10	8.78	39	0.5641
	581	24.00	38.00	32.33	12.95	15	0.4667
	582	25.00	40.00	34.69	11.92	55	0.5564
	591	25.00	37.00	32.09	11.49	11	0.4000
	593	24.00	37.00	32.53	8.07	34	0.4118
	599	23.00	36.00	28.97	11.93	30	0.2833
	602	18.00	36.00	25.06	19.63	34	0.2176
	607	21.00	31.00	24.40	11.60	10	0.2200
	609	19.00	36.00	27.63	29.72	16	0.3125
	622	21.00	40.00	29.33	24.24	18	0.3500
	623	11.00	40.00	25.93	42.44	60	0.2783
	631	15.00	42.00	29.63	32.37	46	0.3478
	632	16.00	42.00	30.65	56.32	26	0.4808
	635	22.00	43.00	28.43	30.04	49	0.3163
	658	25.00	45.00	36.00	76.33	7	0.4714
	669	31.00	38.00	33.20	6.62	10	0.3400
	670	18.00	44.00	28.61	37.53	80	0.3009
	701	17.00	42.00	30.69	18.54	51	0.3725
	706	11.00	39.00	22.88	62.88	40	0.2125
	707	7.00	36.00	18.03	29.27	87	0.1149
	722	18.00	46.00	28.51	44.68	43	0.3256
	722	5.00	17.00	9.41	11.70	49	0.0204
	816	17.00	39.00	30.75	23.22	40	0.3963
	817	29.00	40.00	35.00	8.92	14	0.5714
	825	26.00	38.00	32.73	7.39	48	0.4583
	828	29.00	37.00	33.62	5.19	57	0.4730
	830	28.00	32.00	30.06	1.94	18	0.3611
	836	27.00	40.00	34.55	15.87	11	0.5645
	837	29.00	38.00	34.07	4.84	27	0.5185

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.	
		LOWEST	HIGHEST	MEAN	VARIANCE	N		
<i>Lutjanus synagris</i> (cont.)	862	25.00	40.00	33.43	20.57	14	0.5429	
	863	20.00	39.00	30.92	18.80	59	0.3864	
	875	31.00	40.00	36.85	6.22	26	0.5846	
	881	28.00	39.00	33.24	7.69	17	0.3941	
	896	29.00	34.00	26.54	18.78	24	0.2333	
	902	20.00	37.00	27.30	20.77	44	0.2727	
	904	17.00	29.00	22.23	10.12	35	0.1686	
	906	20.00	37.00	28.31	21.72	49	0.2939	
	923	23.00	36.00	29.00	12.61	34	0.3294	
	927	17.00	46.00	26.86	18.52	181	0.2785	
	928	25.00	46.00	41.96	23.81	28	0.9429	
	940	22.00	44.00	28.59	17.49	75	0.3493	
	942	26.00	47.00	40.17	29.63	63	0.8889	
	949	22.00	27.00	24.22	1.49	36	0.2056	
	953	31.00	37.00	33.63	4.84	8	0.4875	
	962	17.00	45.00	24.26	45.00	201	0.2537	
	969	31.00	43.00	36.29	9.60	14	0.6657	
	972	4.00	44.00	16.76	97.95	113	0.1496	
	986	10.00	26.00	15.81	21.33	42	0.6857	
	997	17.00	27.00	21.77	8.37	22	0.1773	
	1000	32.00	38.00	34.57	3.95	7	0.5286	
	1038	17.00	34.00	25.79	15.95	38	0.3000	
	1051	18.00	37.00	26.07	32.15	27	0.2593	
	1052	11.00	25.50	15.95	7.47	89	0.8584	
	1053	19.00	37.00	28.80	56.40	6	0.3667	
	1057	12.00	44.00	25.90	56.19	79	0.2819	
	1059	10.00	37.00	18.92	32.53	59	0.1186	
	1062	6.50	21.00	14.91	12.32	28	0.0821	
	1067	12.00	37.00	21.58	35.84	74	0.1797	
	1071	8.00	37.00	18.56	25.68	68	0.1147	
	1138	23.00	41.00	34.83	8.53	63	0.5635	
	1139	16.00	40.00	26.33	61.43	21	0.3144	
	1144	20.00	40.00	32.17	35.09	18	0.4278	
	1146	27.00	38.00	33.04	6.78	28	0.4964	
	1148	31.00	41.00	35.54	9.04	24	0.6333	
	1149	26.00	40.00	34.14	11.31	28	0.5179	
	1163	8.00	26.00	17.45	25.26	33	0.8818	
	1184	22.00	35.00	28.71	12.27	34	0.3235	
	1188	25.00	37.00	32.06	19.58	18	0.4556	
	1189	39.00	55.00	46.65	15.24	17	0.6176	
	1190	20.00	35.00	25.60	25.43	45	0.2356	
	1197	20.00	43.00	33.41	8.60	135	0.4704	
	1198	12.00	25.00	18.65	9.51	23	0.1800	
	<i>Lutjanus analis</i>	40	57.00	57.00	57.00		1	4.4000
		55	88.00	88.00	88.00		1	9.6000
		58	75.00	75.00	75.00		1	7.5000
		66	42.00	50.00	47.25	12.92	4	8.4000
149		38.00	70.00	51.07	67.99	28	2.1714	
163		76.00	81.00	78.50	12.50	2	8.8000	
177		83.00	83.00	83.00		1	9.5000	
195		82.00	82.00	82.00		1	8.8000	
210		57.00	73.00	64.17	38.97	6	3.8000	
213		60.00	70.00	63.67	30.33	3	3.9333	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Lutjanus analis</i> (cont.)	214	47.00	69.00	57.00	124.00	3	3.2667
	225	41.00	75.00	54.33	329.33	3	2.9667
	259	38.00	49.00	43.43	14.95	7	1.2857
	266	40.00	44.00	42.00	8.00	2	1.0500
	271	73.00	76.00	74.40	1.30	5	6.0000
	272	64.00	79.00	73.67	70.33	3	5.9333
	274	72.00	78.00	75.00	18.00	2	5.5500
	276	70.00	70.00	70.00		1	4.2000
	282	70.00	98.00	79.30	88.68	10	4.4600
	285	37.00	59.00	49.30	34.96	20	1.8250
	290	40.00	41.00	40.50	0.50	2	0.9000
	334	76.00	76.00	76.00		1	9.0000
	520	41.00	70.00	50.50	112.28	10	3.2000
	523	48.00	69.00	60.45	58.07	11	3.2091
	527	42.00	71.00	59.83	148.57	6	3.2333
	533	37.00	56.00	44.35	19.17	48	1.0833
	566	36.00	44.00	40.00	7.67	7	0.8429
	571	48.00	77.00	64.86	94.81	7	3.5857
	588	45.00	67.00	55.36	56.09	14	2.5000
	589	43.00	64.00	51.50	99.00	4	1.7000
	599	38.00	67.00	53.82	122.16	11	1.3909
	772	74.00	75.00	74.50	0.50	2	6.0000
	804	58.00	77.00	67.57	46.29	7	4.8571
	807	43.00	71.00	63.20	134.70	5	3.6600
	816	39.00	47.00	43.44	7.03	9	1.0333
	827	39.00	44.00	41.22	2.94	9	0.9444
	828	38.00	50.00	44.07	11.92	14	1.0500
	829	41.00	48.00	44.44	4.03	9	1.0444
	836	44.00	47.00	39.15	10.56	20	0.7200
	836	42.00	80.00	57.43	125.19	14	2.6643
	837	40.00	78.00	54.33	210.27	6	2.1667
	854	34.00	44.00	39.11	7.86	9	0.7611
	864	35.00	70.00	49.23	136.86	13	2.0385
	875	46.00	75.00	63.00	122.00	6	1.9667
	894	43.00	68.00	58.20	129.70	5	2.8800
	896	36.00	72.00	47.45	104.87	11	1.6455
	901	42.00	56.00	47.78	28.19	9	1.4111
	907	36.00	68.00	46.33	133.47	6	1.4667
	910	40.00	54.00	45.25	30.25	4	1.2500
	1000	67.00	70.00	68.67	2.33	3	4.5000
	1047	46.00	75.00	63.00	79.69	14	3.3607
	1046	36.00	66.00	47.50	65.50	6	1.3667
	1100	63.00	78.00	74.43	14.57	14	5.9429
	1138	42.00	72.00	55.33	94.00	9	2.2222
	1146	41.00	53.00	46.93	17.30	14	1.3464
	1148	65.00	77.00	71.50	23.90	6	5.5667
	1144	50.00	75.00	65.67	186.33	3	4.1667
1154	37.00	66.00	42.43	15.00	94	0.1043	
1189	61.00	77.00	68.00	40.00	7	4.0857	
1206	42.00	72.00	56.11	106.58	18	2.5778	
<i>Lutjanus griseus</i>	40	42.00	84.00	61.60	166.97	15	4.1000
	220	21.00	32.00	26.79	8.03	14	0.3000
	527	73.00	84.00	79.67	34.33	3	8.1667

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
Lutjanus griseus (cont.)	623	56.00	80.00	66.60	79.80	5	4.2000	
	830	31.00	47.00	38.23	24.69	13	0.7538	
Lutjanus jaco	1047	57.00	60.00	58.50	4.56	2	3.0000	
Lutjanus buccanella	177	36.00	61.00	50.91	46.99	23	2.2174	
	215	40.00	41.00	40.50	0.50	2	1.0500	
	216	35.00	62.00	48.21	70.51	19	2.2947	
	290	66.00	66.00	66.00		1	3.7000	
Lutjanus vivanus	271	32.00	72.00	44.00	352.00	4	1.6250	
	276	55.00	55.00	55.00		1	1.2000	
	291	60.00	60.00	60.00		1	2.8000	
	318	29.00	57.00	39.76	50.25	62	0.8598	
	533	12.00	25.00	17.45	18.48	83	0.0759	
	592	15.00	29.00	23.84	9.16	49	0.1477	
	813	75.00	82.00	78.50	7.10	6	6.7167	
	1140	11.00	39.00	24.69	40.71	118	0.2212	
Lutjanus apodus	509	47.00	70.00	63.20	37.17	15	3.4133	
	648	68.00	77.00	72.50	40.58	2	7.6500	
Lutjanus purpureus	9	28.00	74.00	42.86	158.59	14	1.2357	
	12	16.00	35.00	25.78	34.44	9	1.5667	
	18	22.00	80.00	43.71	549.90	7	1.9429	
	20	30.00	45.00	35.10	18.54	10	0.5600	
	21	72.00	78.00	75.00	9.60	3	5.6333	
	31	18.00	76.00	36.67	469.87	6	1.4750	
	32	22.00	80.00	32.48	52.06	83	0.5422	
	33	38.00	80.00	51.95	101.94	38	1.6737	
	40	55.00	68.00	60.00	49.00	3	3.1667	
	53	19.00	47.99	31.36	31.99	25	0.3640	
	54	19.00	30.50	23.36	22.48	7	0.2214	
	55	85.00	85.00	85.00		1	8.0000	
	57	19.00	37.00	27.98	16.67	50	0.3240	
	58	36.00	80.00	47.00	271.60	6	1.9800	
	66	22.00	35.00	28.18	11.54	60	0.3500	
	72	17.00	20.00	18.00	3.00	3	0.1000	
	80	22.00	34.00	29.33	14.00	9	0.3111	
	112	25.00	75.00	42.50	497.50	6	1.6667	
	143	38.50	50.50	40.50	200.00	2	1.0500	
	148	22.00	39.00	27.60	58.30	5	0.3800	
	179	72.00	72.00	72.00		1	6.3500	
	195	26.00	37.00	32.22	11.48	18	0.5111	
	214	16.00	28.00	22.00	13.33	7	0.1571	
	215	46.00	46.00	46.00		1	1.3500	
	274	17.00	32.00	22.25	44.92	4	0.1250	
	301	44.00	73.00	58.75	252.92	4	3.3000	
	302	35.00	80.00	54.55	311.69	22	2.7409	
	313	80.00	95.00	82.50	12.50	2	9.2000	
	332	80.00	80.00	80.00		1	9.8000	
	349	21.00	33.00	25.90	11.67	39	0.3179	
	350	21.00	79.00	36.88	184.60	66	0.9091	
	364	16.00	70.00	39.64	163.76	39	1.1718	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE			
Lutjanus purpureus (cont.)	366	31.00	40.00	35.89	6.92	9	0.5000	
	424	13.50	26.50	20.33	15.88	21	0.1286	
	425	10.50	22.50	16.93	6.71	51	0.0627	
	435	16.00	44.00	30.85	106.64	13	0.5385	
	440	10.00	20.00	16.08	6.46	72	0.0653	
	441	5.00	11.00	7.19	3.59	18	0.0250	
	451	11.00	40.00	17.79	63.32	48	0.0792	
	512	10.00	40.00	28.29	28.58	150	0.3387	
	529	16.00	35.00	23.23	12.44	70	0.1814	
	533	22.00	27.00	25.14	2.03	21	0.2286	
	575	48.00	78.00	63.33	225.33	3	3.3333	
	586	52.00	75.00	61.60	129.80	5	4.5000	
	589	45.00	48.00	45.80	1.70	5	1.2200	
	596	32.00	78.00	55.50	569.00	4	2.1250	
	611	15.00	85.00	56.43	374.73	14	2.7857	
	617	48.00	80.00	65.90	80.59	21	3.7048	
	623	60.00	62.00	61.00	2.00	2	2.5000	
	631	22.00	28.00	25.50	4.70	6	0.2667	
	646	49.00	71.00	60.64	42.71	14	2.9643	
	658	22.00	49.00	36.85	44.98	27	0.3869	
	663	24.00	32.00	27.00	6.86	8	0.2625	
	670	12.00	41.00	28.58	35.79	45	0.2889	
	672	26.00	39.00	31.33	17.70	12	0.3583	
	673	22.00	51.00	32.29	111.90	7	0.4714	
	686	18.00	27.00	22.70	13.79	10	0.1700	
	744	48.00	82.00	70.00	226.67	4	4.8750	
	746	81.00	81.00	81.00		1	6.3000	
	749	14.00	31.00	24.79	22.92	28	0.2143	
	771	49.00	59.00	52.18	5.71	28	1.7857	
	805	15.00	32.00	24.00	20.75	9	0.2000	
	818	19.00	33.00	25.82	20.25	14	0.2250	
	828	18.00	32.00	25.72	19.74	18	0.2389	
	836	26.00	76.00	33.33	260.00	9	0.8056	
	837	30.00	51.00	41.80	114.70	5	1.8000	
	862	23.00	33.00	28.67	9.15	12	0.2917	
	866	20.00	76.00	37.47	144.18	53	0.8094	
	870	25.00	45.00	33.67	46.27	6	0.5167	
	873	21.00	57.00	38.50	489.00	4	1.0750	
	874	37.00	52.00	43.93	7.45	76	1.0000	
	876	18.00	39.00	30.33	39.75	9	0.7889	
	905	18.00	33.00	25.03	22.10	30	0.2133	
	907	38.00	67.00	57.00	175.33	4	2.2250	
	922	27.00	47.00	35.57	45.95	7	0.5714	
	923	26.00	76.00	37.89	155.02	38	0.7500	
	929	28.00	48.00	36.50	52.30	6	0.6833	
	930	25.00	34.00	28.50	9.18	12	0.3167	
	952	22.00	36.00	28.00	16.00	14	0.3000	
	953	24.00	32.00	27.89	5.75	18	0.2778	
	955	29.00	39.00	33.17	11.21	18	0.7889	
	979	25.00	45.00	34.71	23.32	28	0.5750	
	989	3.00	9.50	5.88	4.16	54	0.0411	
	997	16.00	35.00	27.77	24.50	26	0.2885	
	1000	28.00	55.00	34.61	61.55	18	0.6111	
	1010	25.00	50.00	33.42	42.27	12	0.5083	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Lutjanus purpureus</i> (cont.)	1014	15.00	25.00	21.62	8.76	13	0.1385
	1020	17.00	39.00	28.14	54.75	14	0.4143
	1022	17.00	41.00	28.08	71.90	12	0.3750
	1025	17.00	36.00	25.67	26.43	21	0.2619
	1047	65.00	65.00	65.00		1	3.3000
	1052	5.00	11.50	7.71	2.56	36	0.0097
	1071	4.00	24.00	6.58	18.32	114	0.0118
	1091	14.00	35.00	23.84	26.47	19	0.2211
	1144	12.00	30.00	21.30	24.22	30	0.1600
	1149	12.00	38.00	20.94	62.73	16	0.1375
	1190	16.00	58.00	29.92	133.49	25	0.4640
	1199	20.00	54.00	33.52	75.28	67	0.5209
	1206	47.00	61.00	51.14	22.48	7	1.6714
	<i>Ocyurus chrysurus</i>	504	38.00	62.00	46.04	22.76	93	0.9516
884		36.00	48.00	42.76	12.61	25	0.6480
901		33.00	58.00	48.15	52.14	13	0.9769
1128		34.00	50.00	42.49	16.92	37	0.6730
<i>Pristipomoides macrophthalmus</i>	8	12.00	20.00	15.59	4.19	68	0.0515
	10	11.50	20.50	16.21	7.09	56	0.0598
	12	13.00	22.50	18.71	8.64	21	0.0952
	17	2.50	12.00	6.12	5.99	74	0.0176
	31	13.00	22.00	17.85	4.60	51	0.0431
	33	12.50	20.00	15.61	4.11	31	
	106	12.00	23.00	16.90	6.60	73	0.0726
	110	8.00	18.00	13.55	5.71	38	0.0342
	114	15.00	22.00	19.21	2.93	38	0.0947
	127	9.50	18.50	13.64	3.14	95	0.0358
	140	12.00	24.00	18.53	13.35	70	0.0900
	144	9.00	24.00	14.40	5.17	60	0.0483
	147	11.00	26.00	17.50	26.26	36	0.0917
	157	12.00	24.00	18.57	5.77	81	0.0796
	158	13.00	30.00	20.69	18.79	101	0.1238
	171	11.00	24.00	15.10	8.84	74	0.0459
	175	14.00	24.00	18.28	6.28	102	0.0814
	198	8.50	23.00	13.69	13.58	59	0.0339
	313	14.00	23.50	16.39	7.89	14	0.0571
	346	12.50	18.50	15.16	2.19	56	0.0446
	347	12.00	18.50	15.63	4.52	20	0.0550
	382	12.00	19.00	15.55	3.47	75	0.0520
	383	10.50	20.50	15.51	7.34	63	0.0540
	394	16.00	21.50	19.43	1.42	70	0.0843
	412	11.50	25.50	19.55	13.79	37	0.1027
	414	11.50	24.50	17.96	8.25	70	0.0786
	416	13.50	23.00	18.88	3.99	72	0.0847
	458	10.00	17.50	13.03	3.29	96	0.0313
	460	9.00	20.50	10.91	2.47	75	0.0200
	468	7.00	11.50	10.31	0.64	73	0.0151
	471	11.00	25.00	16.36	11.12	44	0.0568
	480	11.00	24.00	14.52	8.82	58	0.0457
	482	12.00	28.00	18.89	10.31	47	0.0947
492	9.00	22.00	11.94	2.27	163	0.0215	
496	12.00	21.50	15.72	6.31	45	0.0556	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Pristipomoides macrophthalmus</i> (cont.)	499	11.00	28.00	17.84	14.17	106	0.1123
	501	14.00	26.00	20.77	6.55	32	0.1063
	516	16.00	25.00	21.33	3.42	78	0.1269
	536	12.50	22.00	17.02	6.77	45	0.0667
	470	11.50	23.50	15.99	7.45	71	0.0465
	567	8.00	18.50	10.80	5.05	83	0.0145
	573	17.00	23.00	20.06	2.54	47	0.1000
	591	13.00	22.00	17.52	6.18	25	0.0800
	592	16.00	24.00	19.67	3.34	47	0.1043
	601	13.50	23.00	19.10	4.00	73	0.0822
	611	12.00	20.50	17.28	2.71	93	0.0753
	617	12.00	21.50	17.19	5.92	89	0.0629
	618	9.00	21.00	16.00	10.48	169	0.0533
	619	7.00	14.00	11.22	2.20	81	0.0217
	627	6.50	11.50	9.63	0.94	79	0.0152
	647	10.00	16.00	13.26	1.69	45	0.0333
	648	12.00	18.00	15.97	2.53	29	0.0517
	672	9.00	21.00	17.28	7.08	96	0.0667
	696	8.50	21.50	13.07	7.26	42	0.0333
	736	10.50	19.50	15.09	4.46	102	0.0480
	763	10.00	24.00	12.58	10.73	110	0.0300
	764	11.00	25.00	12.15	3.02	68	0.0221
	771	11.00	22.00	16.75	9.28	36	0.0639
	784	10.50	20.00	12.46	1.80	111	0.0244
	765	10.00	24.00	16.49	9.17	93	0.0613
	787	10.00	14.00	11.89	0.94	51	0.0196
	788	13.00	25.00	18.92	6.50	45	0.0738
	791	9.00	24.00	13.27	12.97	121	0.0372
	792	14.00	35.00	20.07	24.12	42	0.0952
	808	16.00	26.00	21.50	3.79	48	0.1333
	814	7.00	20.50	10.61	7.12	106	0.0179
	815	5.50	11.00	8.68	1.64	154	0.0097
	817	6.50	21.00	12.72	18.02	87	0.0345
824	12.00	26.00	21.64	15.94	46	0.1370	
835	10.50	17.00	12.77	3.74	56	0.0268	
899	9.00	22.00	15.73	16.91	49	0.0510	
931	13.00	22.50	17.82	5.92	47	0.0723	
955	11.00	18.00	13.82	2.47	84	0.0345	
1008	7.00	22.00	16.59	7.71	124	0.0202	
1014	16.00	35.00	20.01	19.98	146	0.0144	
1050	9.00	22.50	12.45	4.35	92	0.0272	
1106	10.00	27.00	14.68	12.63	50	0.0440	
1158	2.00	21.00	14.00	16.61	50	0.4000	
<i>Knoboplitites aurorudens</i>	8	12.00	37.00	16.80	22.12	188	0.0761
	9	13.00	27.00	22.35	12.96	26	0.1462
	12	13.00	26.00	18.63	12.23	44	0.0955
	17	5.00	18.00	11.48	10.17	32	0.0406
	18	20.00	39.00	21.94	10.60	34	0.1118
	19	39.50	41.50	40.50	1.00	3	0.8667
	21	10.00	27.00	20.59	8.77	58	0.1121
	31	14.00	20.00	16.43	3.67	34	0.1235
	32	10.00	37.00	19.49	57.47	75	0.1400
	33	14.00	22.00	20.13	3.45	16	0.0813

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Rhomboplites aurarubens</i> (cont.)	34	7.00	25.00	11.72	14.63	155	0.0252
	35	10.00	22.00	14.46	5.08	52	0.0442
	20	13.00	33.00	23.18	11.91	102	0.1578
	40	18.00	29.00	25.05	3.37	63	0.1841
	53	11.00	23.50	19.76	7.81	42	0.0524
	54	10.50	21.50	14.08	5.20	73	0.0425
	55	10.00	19.00	13.47	2.73	52	0.0346
	57	13.00	22.50	18.63	7.20	50	0.0860
	58	10.00	34.00	23.42	23.84	50	0.1870
	66	16.00	29.00	23.50	6.62	120	0.1708
	80	14.00	30.00	19.14	12.73	37	0.0838
	110	9.00	27.00	13.38	11.55	56	0.0304
	127	13.00	19.50	15.53	1.91	20	0.0500
	147	9.50	15.00	11.50	0.89	116	0.0267
	176	33.00	38.00	34.83	3.44	18	0.5056
	179	15.00	23.00	19.00	32.00	2	0.1000
	196	8.00	17.00	11.80	3.97	85	0.0212
	213	9.00	36.00	13.95	41.67	59	0.0525
	259	21.00	30.00	25.71	8.22	24	0.2417
	276	13.00	35.00	22.33	48.95	15	0.1733
	285	23.00	38.00	31.46	10.58	56	0.5000
	285	7.00	27.00	18.38	32.42	45	0.0744
	288	12.00	19.00	15.20	2.62	38	0.0395
	290	8.00	20.50	12.98	8.32	27	0.0144
	296	8.00	20.00	14.48	5.04	41	0.0366
	297	12.50	19.00	15.77	2.43	28	0.0318
	299	13.00	20.50	16.94	2.49	70	0.0643
	302	13.00	34.00	20.43	15.43	69	0.1377
	313	12.00	29.00	19.39	18.88	76	0.1395
	314	12.00	26.50	21.76	5.25	78	0.1718
	316	11.00	26.00	17.61	10.08	70	0.0786
	317	23.00	32.00	26.69	2.96	135	0.0615
	318	8.00	21.50	12.91	6.27	158	0.0348
	319	11.00	28.00	20.89	24.65	37	0.1216
	332	10.50	16.00	12.37	1.37	62	0.0250
	333	11.00	17.50	14.15	3.18	13	0.0462
	334	13.00	16.50	15.13	0.62	36	0.0472
	346	12.00	22.50	14.82	6.28	89	0.0449
	350	14.00	30.00	18.71	24.58	28	0.0893
	364	12.00	31.00	23.57	20.13	53	0.1792
	381	13.00	24.00	17.82	7.34	73	0.0822
	382	15.50	19.50	17.94	1.30	16	0.0875
	414	13.50	28.00	23.41	12.89	55	0.1727
	426	10.00	18.50	15.61	3.61	57	0.0561
	460	9.00	13.50	11.19	1.27	66	0.0227
	483	14.00	30.00	19.64	35.94	28	0.1250
	502	17.00	25.00	21.66	3.02	29	0.1207
	505	12.50	15.50	13.53	0.38	99	0.0278
	508	13.00	19.00	14.81	0.91	62	0.0452
	511	15.50	29.00	22.86	11.24	103	0.1476
	513	10.50	18.00	12.55	3.12	31	0.0452
517	30.00	50.00	39.39	22.29	46	0.5435	
518	8.00	25.00	15.63	4.31	129	0.0535	
519	14.50	22.00	18.04	2.81	64	0.0781	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Rhomboplites aurarubens</i> (cont.)	533	14.00	28.00	19.52	7.68	25	0.1080
	536	19.00	31.00	24.00	14.36	12	0.2000
	562	11.00	35.00	22.45	14.61	80	0.1375
	563	14.00	24.00	20.63	6.93	27	0.1259
	564	22.00	35.00	26.54	5.19	103	0.2330
	567	17.00	35.00	27.44	13.03	27	0.2481
	571	22.00	36.50	29.52	20.06	22	0.2727
	574	8.00	33.00	17.85	49.77	74	0.0946
	580	9.50	22.50	16.07	8.15	76	0.0769
	582	8.00	25.00	15.41	11.33	91	0.0404
	583	8.00	9.50	8.67	0.15	42	0.0167
	584	7.00	17.00	11.98	7.86	122	0.0208
	589	13.00	26.00	17.67	7.71	78	0.0564
	591	15.00	34.00	27.64	15.05	28	0.2357
	599	8.00	22.00	18.47	10.46	30	0.0833
	600	7.00	21.00	16.70	6.60	37	0.0676
	606	6.50	19.50	13.32	9.26	188	0.0356
	614	13.50	25.00	20.17	8.88	46	0.1109
	617	12.00	33.00	18.73	16.91	82	0.0976
	618	13.00	24.00	21.08	4.72	38	0.1184
	619	12.00	21.00	14.69	6.04	29	0.0379
	620	14.00	20.50	16.78	2.57	16	0.0625
	623	6.00	32.00	18.51	41.64	83	0.1024
	648	10.00	21.50	14.05	4.34	102	0.0343
	649	12.50	22.50	14.85	1.84	65	0.0415
	650	11.00	26.00	16.97	20.72	30	0.0733
	656	19.00	31.00	24.77	10.03	13	0.1615
	662	7.50	20.00	10.89	8.03	37	0.0162
	663	9.00	29.00	21.59	28.87	27	0.1333
	678	16.00	27.00	20.52	5.28	48	0.1104
	696	11.50	16.50	14.84	0.82	53	0.0377
	698	13.00	34.00	16.55	14.40	29	0.0724
	712	8.50	14.00	11.78	1.75	63	0.0238
	736	24.50	33.00	27.47	4.85	19	0.2684
	744	9.50	23.00	14.22	9.47	75	0.0347
	746	9.00	28.00	14.39	5.82	92	0.0424
	750	13.50	17.50	15.53	0.59	108	0.0477
	769	13.00	26.00	18.39	6.67	66	0.0750
	771	12.00	20.00	16.44	2.85	18	0.0528
	772	12.00	37.00	20.00	75.59	55	0.1600
	776	32.00	40.00	41.00	42.25	9	0.8222
	785	12.00	34.00	14.71	15.74	105	0.0505
	787	28.00	41.00	33.71	13.41	21	0.4286
	788	15.00	31.00	24.55	20.25	47	0.1915
	789	22.00	40.00	33.00	15.08	14	0.3929
	794	12.00	26.50	20.07	5.41	117	0.0889
	797	12.00	16.50	14.30	0.75	106	0.0344
	799	13.00	17.00	15.04	0.51	146	0.0397
	803	18.00	28.00	22.95	10.05	19	0.1526
	804	11.00	22.00	16.34	6.31	29	0.0414
	807	15.00	30.00	20.13	18.66	23	0.1087
825	9.00	38.00	28.17	119.32	18	0.4444	
828	13.00	27.50	18.69	7.17	72	0.1042	
834	13.00	27.00	20.50	16.45	42	0.1114	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Upeneus parvus (cont.)							
	813	7.00	11.00	8.70	0.56	103	0.0068
	835	8.50	15.00	11.18	1.87	135	0.0174
	839	10.50	17.00	13.77	4.20	30	0.0333
	840	7.50	16.00	11.42	1.46	142	0.0187
	862	7.50	14.50	10.65	1.87	95	0.0126
	885	7.50	15.50	11.78	1.95	137	0.0161
	894	11.00	18.00	14.22	3.48	60	0.0333
	906	11.50	19.50	15.44	1.54	114	0.0434
	926	11.00	14.50	12.58	0.49	71	0.0239
	939	11.00	13.50	12.19	0.29	97	0.0196
	982	12.00	19.00	16.21	1.51	74	0.0554
	990	13.00	20.00	16.91	2.57	46	0.0674
	1079	12.00	18.00	14.27	2.01	55	0.0327
	1106	10.50	16.00	13.42	1.60	69	0.0384
	1134	12.00	19.50	15.91	2.68	66	0.0455
	1146	7.00	14.00	10.40	4.98	72	0.0167
	1155	7.50	14.50	11.20	2.19	59	0.0195
	1183	7.00	19.00	14.71	5.44	69	0.0435
MONACIDAE							
Cubiceps sp							
	6	12.00	16.00	14.27	0.74	79	0.0316
POMACANTHIDAE							
Pomacanthus arcuatus							
	637	20.00	45.00	32.47	72.12	15	1.7133
POLYMIXIIDAE							
Polymixia sp							
	6	12.50	17.50	14.54	1.38	26	0.0462
	11	15.00	19.50	16.96	1.08	42	0.0714
Polymixia lowei							
	193	15.50	24.50	20.11	4.89	23	0.1130
POMADASYIDAE							
Canodon nobilis							
	220	21.00	30.00	23.87	4.50	39	0.2436
	265	23.00	31.00	27.01	2.32	79	0.2987
	701	24.00	31.00	26.53	3.01	17	0.2824
	1048	26.00	31.00	28.80	2.22	35	0.3343
Haemulon oaschae							
	127	9.00	13.50	11.59	1.45	78	0.0167
	135	10.50	15.00	13.84	0.71	51	0.0314
	156	8.00	14.00	10.59	1.20	85	0.0165
	744	7.50	15.00	10.89	3.33	88	0.0193
	746	7.00	14.00	9.91	3.34	139	0.0129
	750	8.00	15.50	11.29	2.27	104	0.0192
	753	8.00	15.00	12.14	2.62	57	0.0246
	762	8.00	13.50	11.76	0.68	133	0.0180
	763	8.50	14.00	12.70	0.87	98	0.0245
	771	9.00	14.00	11.96	0.88	53	0.0181
	783	3.50	10.50	6.28	2.76	152	0.0036
	786	7.00	13.00	9.13	2.33	56	0.0107
	787	8.00	13.00	10.24	1.65	49	0.0102

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Haemulon boschae (cont.)							
	794	6.50	14.50	11.00	1.49	87	0.0172
	795	9.00	14.00	11.71	1.33	147	0.0184
	801	7.50	14.50	10.12	1.13	109	0.0119
	803	8.00	18.00	12.59	3.36	58	0.0207
	807	8.50	15.00	11.69	1.18	78	0.0192
	957	12.50	15.00	13.98	0.36	27	0.0500
	1086	8.50	15.50	12.99	2.84	76	0.0263
	1088	7.00	15.00	10.25	3.01	114	0.0132
	1159	8.00	13.50	10.70	1.37	54	0.0037
	1160	8.50	13.00	10.84	1.23	66	0.0136
	1196	7.00	12.50	10.31	1.33	151	0.0132
Haemulon striatum							
	177	12.00	19.00	16.75	3.06	65	0.0631
	180	9.50	21.00	15.30	12.05	86	0.0552
	500	12.00	22.50	20.37	0.78	91	0.0956
	797	12.00	21.50	16.70	4.75	83	0.0518
	799	14.00	20.50	17.03	3.57	31	0.0516
	801	6.00	20.00	12.40	15.86	161	0.0294
Haemulon aurolineatum							
	40	18.00	23.00	20.17	2.27	48	0.1188
	156	15.00	21.00	17.89	1.99	19	0.0632
	589	12.50	18.00	15.50	1.70	78	0.0449
	628	13.50	22.50	17.75	5.37	57	0.0877
	629	13.00	24.00	17.64	5.80	131	0.0763
	650	9.00	23.00	17.43	8.73	51	0.0784
	749	11.00	22.50	18.39	12.02	18	0.0833
	769	18.00	28.50	21.03	5.09	30	0.1233
	877	13.00	20.50	16.03	2.71	114	0.0478
	890	12.00	19.00	15.30	1.49	129	0.0434
	959	10.00	22.50	16.72	15.37	45	0.0778
	1198	12.00	18.00	14.79	2.18	60	0.0400
Haemulon steindachneri							
	40	19.00	24.00	21.64	2.45	11	0.2000
	220	13.00	24.00	20.26	8.67	43	0.1581
	331	12.50	22.50	16.77	5.80	48	0.1354
	537	13.00	25.00	20.86	10.50	28	0.1571
	627	12.00	20.00	16.45	4.25	28	0.0714
	650	14.50	26.00	19.44	4.06	61	0.1066
	651	12.00	24.00	19.61	5.17	113	0.1080
	749	10.50	24.00	18.23	8.47	63	0.0952
	769	12.00	25.00	21.42	4.28	63	0.1349
	786	21.00	28.00	25.45	3.47	29	0.2241
	807	16.00	25.00	19.69	5.40	45	0.0556
	1148	20.00	29.00	26.08	4.76	36	0.2750
Haemulon plumieri							
	163	21.00	30.00	31.00	19.27	23	0.6304
Haemulon melanurum							
	127	11.50	17.50	13.93	1.11	57	0.0404
	990	18.00	26.00	22.08	4.23	26	0.1538
Haemulon chrysargyreum							
	507	13.00	20.00	17.93	2.37	68	0.0632
Haemulon flavolineatum							
	772	20.00	34.50	30.08	9.13	26	0.3500
Orthopristis ruber							

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE			STATION	LENGTHS IN SAMPLE			MEAN W.
		LOWEST	HIGHEST	MEAN		LOWEST	HIGHEST	MEAN	
PRICANTHIDAE <i>Pricanthus arenatus</i>	13	20.00	25.00	22.37	49	0.1694			
	25	14.00	27.00	21.74	6.64	69	0.1652		
	27	19.00	25.00	21.48	3.36	21	0.1571	1159	18.00
	134	17.00	24.00	19.64	2.76	28	0.1036	1152	16.00
	135	15.00	28.00	19.61	8.78	57	0.1123	1178	22.00
	230	20.00	29.00	23.74	3.86	31	0.1655		
	233	22.00	28.00	25.23	2.25	56	0.2643		
	234	16.00	28.00	23.59	4.79	56	0.2286		
	256	15.00	25.00	22.59	15.90	6	0.1833		
	265	23.00	28.00	25.95	1.52	20	0.2600		
	307	17.50	26.00	22.88	2.77	46	0.2217		
	609	19.00	28.00	23.19	3.11	124	0.2016		
	626	17.00	24.00	20.96	2.62	80	0.1325		
754	27.50	29.00	28.25	1.12	2	0.4000			
942	18.50	27.00	22.38	3.02	90	0.1667			
962	14.00	27.00	17.25	6.50	60	0.0883			
PRICANTHIDAE <i>Pricanthus arenatus</i>	143	25.00	36.00	29.43	6.89	23	0.4130		
	163	22.00	40.00	34.28	11.11	87	0.5506		
	168	17.00	34.00	27.05	11.22	42	0.2667		
	170	8.00	33.00	23.68	34.78	44	0.2114		
	276	20.00	34.00	30.04	12.52	28	0.4000		
	492	8.00	34.00	18.53	67.59	70	0.1301		
	504	16.00	45.00	36.14	36.60	59	0.6322		
	519	12.00	32.00	17.67	25.43	36	0.1111		
	535	13.00	27.50	14.56	7.51	59	0.0980		
	536	12.50	27.00	15.67	13.41	106	0.0660		
	537	12.50	26.00	15.67	13.52	117	0.0684		
	557	13.00	35.00	25.40	40.15	42	0.2619		
	563	12.50	27.00	14.70	5.76	58	0.0517		
569	13.00	34.00	26.44	41.59	34	0.2647			
623	20.00	32.00	26.41	9.89	46	0.2870			
646	12.50	16.00	13.90	0.45	76	0.0395			
649	12.00	17.00	14.64	0.87	106	0.0491			
662	12.00	20.00	14.04	2.57	40	0.0375			
744	24.00	35.00	31.20	4.57	45	0.3333			
749	12.00	35.00	20.33	82.93	21	0.1708			
765	15.00	37.00	29.19	41.26	21	0.3333			
767	26.00	36.00	29.75	16.50	8	0.3625			
768	15.00	29.00	18.85	22.13	20	0.1000			
794	14.50	17.00	15.45	0.47	21	0.0371			
803	14.00	30.00	16.29	9.35	85	0.0671			
805	23.00	33.00	31.08	7.91	13	0.3462			
839	12.00	35.00	18.79	8.54	71	0.1070			
840	14.00	34.00	25.86	33.69	56	0.2464			
863	16.00	24.00	19.59	3.87	40	0.1925			
866	15.00	36.00	28.65	42.24	31	0.3226			
876	16.00	35.00	25.07	49.71	29	0.2310			
904	19.00	28.00	23.29	6.39	24	0.1625			
923	15.00	29.00	17.70	6.73	63	0.1000			
932	16.00	20.00	17.10	0.85	25	0.0800			
956	15.50	19.50	17.05	0.55	72	0.0419			
1113	13.50	20.50	18.53	3.00	32	0.0594			
PRICANTHIDAE <i>Pricanthus arenatus</i>	1117	70.00	70.00	284.17				1117	0.0128
	1002	38.00	72.00	55.67	165.47	6	3.0000		
	572	6.00	14.00	8.90	2.14	117	0.0128		
	491	9.50	21.50	14.18	6.79	95	0.1558		
	295	9.00	14.50	12.03	2.09	61	0.0279		
	408	12.00	20.50	16.96	4.65	67	0.0821		
	410	9.50	20.50	16.94	4.79	80	0.0725		
	433	11.50	18.00	16.00	2.04	55	0.0680		
	466	11.00	20.00	16.89	1.43	151	0.0922		
	488	9.00	16.50	14.19	1.32	86	0.0407		
	633	8.50	15.50	12.33	2.00	42	0.0310		
	688	6.00	20.00	12.99	10.76	84	0.0357		
	689	7.00	18.00	12.70	13.45	40	0.0375		
694	12.00	18.00	14.23	2.91	94	0.0457			
711	11.00	19.00	15.50	2.73	83	0.0614			
715	7.00	17.00	13.12	4.08	66	0.0455			
738	8.00	12.50	9.95	0.62	104	0.0138			
765	14.00	20.50	17.30	2.26	66	0.0754			
CYNACSTION SP <i>Cynacstion acampa</i>	13	15.00	27.00	18.92	9.33	25	0.1000		
	41	20.00	27.00	22.30	6.90	10	0.1500		
	78	16.00	28.50	19.00	3.11	119	0.0866		
	85	85.00	85.00	85.00		1	5.0000		
	86	87.00	88.00	87.50	0.50	2	6.6000		
	259	10.00	16.00	13.63	1.36	50	0.0248		
	625	35.00	64.00	51.89	90.36	9	1.0222		
	668	46.00	53.00	49.00	6.40	6	0.7833		
	706	42.00	53.00	47.44	13.28	9	0.5556		
	1062	27.00	43.00	35.10	17.88	10	0.5000		
	547	33.00	55.00	45.00	50.11	20	1.0150		

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Macrødon ancylodon (cont.)							
	454	10.00	23.00	18.80	4.39	58	0.0552
	544	13.00	26.00	18.79	7.63	38	0.0737
	641	14.00	30.00	21.64	13.55	39	0.1051
	655	22.00	30.00	25.71	4.55	35	0.1600
	675	18.00	29.50	25.15	7.58	39	0.1538
	720	22.00	29.50	25.73	4.85	31	0.1484
	771	19.00	32.00	25.15	9.70	80	0.1563
	985	19.00	35.00	25.32	19.23	25	0.1480
	987	20.00	33.00	25.19	10.05	58	0.1431
	993	22.00	32.00	26.54	4.79	52	0.1673
	995	20.00	29.50	24.38	9.17	34	0.1294
	1006	15.50	29.00	20.51	6.23	79	0.0734
Micropogonias furnieri							
	61	30.00	42.00	35.00	15.78	10	0.5300
	68	17.00	41.00	33.60	41.90	30	0.4767
	70	34.00	42.00	39.23	3.86	13	0.6769
	74	22.00	43.00	34.14	40.75	14	0.4929
	75	33.00	45.00	38.55	9.67	11	0.6545
	76	30.00	45.00	39.25	6.90	32	0.6590
	84	26.00	38.00	30.22	20.94	9	0.8444
	250	15.00	44.00	24.36	48.29	70	0.2143
	275	30.00	45.00	36.50	7.23	48	0.6250
	322	38.00	49.00	41.90	14.54	10	0.7600
	339	38.00	46.00	41.13	5.55	8	1.1750
	356	31.00	46.00	37.72	10.28	83	0.7169
	427	34.00	48.50	39.75	15.64	20	0.8000
	454	29.00	47.00	38.67	9.39	61	0.7475
	488	25.00	43.00	33.38	31.62	40	0.5188
	538	21.00	47.00	38.54	41.94	13	0.6769
	539	16.00	58.00	22.97	31.10	31	0.1548
	540	16.00	24.00	19.46	6.77	13	0.0923
	540	24.00	40.00	34.39	20.47	28	0.5714
	543	25.00	42.00	34.70	16.36	30	0.4267
	544	26.00	41.00	35.77	16.50	26	0.5269
	544	15.00	20.00	17.14	1.74	22	0.0682
	545	27.00	42.00	35.39	18.61	23	0.5043
	545	16.00	23.00	18.47	5.01	17	0.0471
	546	15.00	35.00	22.52	41.43	25	0.1720
	558	17.00	44.00	27.97	52.24	38	0.2711
	665	26.00	39.00	31.76	15.29	21	0.3333
	668	20.00	40.00	29.14	36.13	14	0.3884
	688	15.00	23.00	20.25	4.33	16	0.1875
	699	29.00	41.00	35.79	8.95	52	0.4923
	708	23.00	42.00	29.37	13.66	70	0.2629
	709	29.00	43.00	36.94	13.00	18	0.5833
	720	32.00	47.00	39.58	22.63	12	0.6667
	722	28.00	40.00	33.31	7.36	88	0.4068
	726	25.00	44.00	36.70	30.95	23	0.6087
	729	30.00	48.00	39.00	25.44	19	0.7000
	730	39.00	47.00	43.76	6.43	34	0.8471
	732	41.00	51.00	45.64	5.92	39	1.0051
	849	22.00	40.00	31.32	30.67	19	0.3526
	850	32.00	39.00	35.33	4.67	15	0.5100
	851	15.00	40.00	33.09	41.69	47	0.4532

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Micropogonias furnieri (cont.)							
	872	25.00	49.00	37.62	37.93	26	0.5962
	928	34.00	40.00	37.00	4.25	9	0.5778
	968	30.00	42.00	34.67	8.75	24	0.4667
	985	36.00	43.00	39.61	3.64	23	0.6391
	1025	37.00	51.00	46.24	14.94	17	1.2353
	1031	37.00	55.00	46.97	13.79	34	1.3059
	1035	33.00	50.00	42.50	18.05	40	0.9125
	1037	29.00	40.00	33.32	9.14	25	0.4160
	1038	26.00	39.00	31.19	9.31	162	0.3556
	1053	25.00	42.00	33.62	24.01	26	0.4692
	1057	27.00	38.00	31.72	8.75	53	0.3774
	1069	38.00	51.00	43.31	6.54	64	0.8844
	1070	40.00	46.00	43.24	3.61	25	0.8640
	1165	23.00	40.00	32.58	18.92	19	0.0632
	1169	15.00	42.00	21.65	53.11	85	0.1588
	1191	22.00	44.00	34.67	15.38	70	0.5000
Ubrina coroides							
	51	13.50	20.00	16.89	3.47	35	0.0757
	668	26.00	32.00	29.50	6.33	4	0.3250
SCOMBROIDAE							
Auxis thazard							
	736	29.00	32.00	30.71	1.24	7	0.4357
Euthynnus alletteratus							
	45	34.00	42.00	39.29	6.90	7	0.8286
	132	70.00	70.00	70.00		2	4.1500
Sarda sarda							
	252	21.00	27.00	23.76	1.01	45	0.1356
	257	22.00	29.00	25.67	2.06	36	0.1886
	768	39.00	44.00	42.40	2.93	10	0.7850
Scomber japonicus							
	109	25.00	29.00	27.53	0.74	59	0.2119
	151	23.00	28.00	25.26	2.08	33	0.1803
	168	23.50	30.00	26.36	3.17	44	0.1977
	224	9.50	14.50	11.00	1.49	56	0.0107
	228	9.50	12.50	11.10	0.39	92	0.0098
	229	11.00	13.00	11.56	0.19	79	0.0127
	257	11.00	14.50	12.72	0.72	48	0.0188
	264	9.50	16.00	11.20	1.70	125	0.0128
	469	12.50	17.00	14.13	0.63	42	0.0333
	472	14.50	21.50	16.65	4.12	55	0.0455
	475	21.00	26.00	22.82	2.34	19	0.1053
	480	18.00	27.00	24.07	5.11	60	0.1667
	502	16.50	25.00	21.88	2.04	71	0.0845
	537	12.50	17.50	14.73	0.94	127	0.0269
	750	20.00	25.50	22.55	1.10	117	0.0983
	773	15.00	18.50	16.46	0.50	81	0.0340
	792	22.00	25.00	23.10	0.51	36	0.0972
	793	19.00	25.00	21.42	0.92	48	0.0771
	799	21.00	25.00	22.79	0.89	48	0.1042
	870	15.00	25.00	19.87	4.01	60	0.0650
	886	14.50	19.50	16.54	1.15	83	0.0361
	887	14.50	19.00	16.57	1.05	35	0.0371
	891	20.00	28.00	24.36	1.55	136	0.1176

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Scomber japonicus</i> (cont.)	1033	23.50	27.00	25.27	1.07	11	0.1455
	1113	20.00	27.00	22.02	1.37	52	0.0863
	1115	19.00	23.50	21.57	0.72	68	0.0779
<i>Scomberomorus cavalla</i>	28	22.00	25.00	23.67	2.33	3	0.1933
	45	50.00	75.00	59.35	40.69	23	1.1478
	47	20.00	70.00	50.73	202.62	11	0.8364
	58	40.00	78.00	53.67	274.27	6	1.0833
	59	18.00	54.00	26.50	113.37	28	0.2250
	67	22.00	70.00	51.00	420.00	4	0.9500
	71	76.00	76.00	76.00		1	2.9000
	72	27.00	37.00	32.67	26.33	3	0.2500
	73	35.00	64.00	42.75	200.92	4	0.5500
	77	30.00	62.00	46.00	512.00	2	0.6500
	78	36.00	78.00	58.28	72.95	36	1.0139
	93	90.00	105.00	105.00		2	6.1500
	96	60.00	67.00	63.50	24.50	2	1.5500
	112	18.00	52.00	26.71	85.30	34	0.1824
	132	95.00	110.00	102.50	112.50	2	6.9750
	135	47.00	75.00	60.00	199.00	3	1.5667
	204	76.00	80.00	78.00	8.00	2	3.1250
	215	49.00	103.00	77.00	1568.00	2	4.4000
	216	50.00	50.00	50.00		2	0.4100
	287	26.00	50.00	35.83	18.50	38	0.2775
	303	73.00	85.00	79.00	72.00	2	2.6500
	304	75.00	78.00	76.50	4.50	2	3.5000
	322	62.00	75.00	66.33	12.97	12	1.6667
	337	58.00	104.00	77.29	126.81	31	2.8548
	338	72.00	118.00	95.00	1058.00	2	7.1500
	340	80.00	84.00	82.00	8.00	2	4.5000
	372	55.00	78.00	65.50	97.67	4	1.7250
	376	71.00	76.00	73.50	12.50	2	1.9500
	387	62.00	73.00	68.00	28.67	4	1.6250
	415	42.00	71.00	55.17	73.70	23	0.9783
	423	38.00	48.00	43.21	6.49	14	0.5286
	424	41.00	50.00	45.91	9.09	11	0.5455
	434	32.00	61.00	48.53	27.85	66	0.6879
	440	38.00	56.00	44.51	10.34	69	0.6087
	485	36.00	44.00	39.36	5.79	14	0.3393
	560	40.00	55.00	42.97	8.24	39	0.4615
	631	43.00	54.00	47.83	15.77	6	0.5833
632	64.00	100.00	78.00	308.00	5	2.6000	
633	51.00	57.00	54.00	18.00	2	1.8500	
637	55.00	68.00	63.07	9.30	14	1.0429	
638	55.00	61.00	56.20	7.20	5	0.8400	
655	48.00	56.00	52.67	17.33	3	0.7333	
656	27.00	55.00	42.10	66.32	10	0.4500	
657	36.00	65.00	51.39	77.27	36	0.6317	
658	30.00	74.00	48.45	105.27	58	0.5862	
666	35.00	64.00	46.42	48.45	12	0.5000	
670	20.00	72.00	41.74	253.20	23	0.5435	
753	57.00	65.00	61.25	10.92	4	1.1250	
850	37.00	63.00	46.68	44.45	19	0.5789	
921	37.00	43.00	39.00	4.40	6	1.2500	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
<i>Scomberomorus cavalla</i> (cont.)	927	52.00	86.00	69.00	578.00	2	2.1500
	928	33.00	59.00	50.23	58.36	13	0.7077
	929	55.00	68.00	62.00	43.00	3	1.4000
	930	50.00	61.00	56.83	14.97	6	0.9500
	940	72.00	102.00	82.77	86.36	13	3.3846
	976	7.00	14.50	10.10	1.54	142	0.0140
	984	36.00	68.00	50.40	128.71	10	0.9600
	986	37.00	53.00	46.00	67.00	3	1.4333
	994	30.00	62.00	43.47	39.56	53	0.5189
	996	38.00	45.00	42.56	5.03	9	0.4444
<i>Scomberomorus brasiliensis</i>	15	36.00	65.00	50.83	94.17	6	0.7500
	20	45.00	74.00	63.00	247.00	3	1.7000
	21	66.00	114.00	84.29	337.90	7	4.2429
	245	38.00	67.00	56.07	53.69	27	0.9630
	248	38.00	72.00	56.57	135.62	7	1.2643
	249	38.00	78.00	62.50	299.67	4	1.9500
	263	37.00	53.00	41.17	27.61	12	0.4250
	527	49.00	74.00	60.63	49.29	24	1.1583
	655	40.00	78.00	60.73	144.22	11	1.1636
	666	40.00	67.00	52.24	93.11	25	0.7200
	851	36.00	63.00	51.64	42.45	11	0.8409
	921	35.00	57.00	45.00	73.67	7	0.2429
	927	39.00	64.00	46.60	24.57	20	0.5000
	928	41.00	67.00	56.00	49.37	20	0.8550
	930	42.00	62.00	46.25	17.58	4	0.5250
	940	44.00	76.00	59.14	106.48	7	1.1286
	942	40.00	72.00	55.68	57.45	19	0.7895
	948	40.00	63.00	52.35	34.08	26	0.7500
	961	35.00	60.00	48.49	33.35	45	0.5667
	968	32.00	72.00	54.71	98.84	14	0.8786
	971	43.00	65.00	51.33	34.10	15	0.6333
	984	32.00	72.00	44.73	123.55	44	0.5684
	985	51.00	67.00	60.11	46.11	9	1.0556
	986	32.00	80.00	48.17	155.62	35	0.6229
	987	45.00	70.00	56.38	62.84	8	1.0500
	993	48.00	58.00	52.83	9.06	12	0.7250
	994	52.00	62.00	43.86	28.29	184	0.4522
	996	49.00	54.00	51.00	7.00	3	0.7333
	998	34.00	68.00	50.80	87.62	24	0.7250
	999	34.00	72.00	55.63	81.27	38	0.9237
1005	24.00	82.00	44.73	61.30	88	0.4716	
1016	51.00	71.00	59.41	32.39	44	1.1205	
1054	20.00	78.00	39.79	171.61	105	0.4476	
24	44.00	50.00	47.75	4.21	8	0.5625	
25	50.00	55.00	52.50	12.50	2	0.8500	
26	55.00	65.00	57.75	23.58	4	1.0000	
27	51.00	72.00	61.50	220.50	2	1.3500	
29	50.00	69.00	60.33	35.25	9	1.1333	
38	50.00	72.00	61.27	50.02	11	1.2545	
44	42.00	56.00	50.22	21.44	9	0.6667	
46	15.00	65.00	44.33	235.24	15	0.6340	
48	37.00	60.00	45.14	32.13	14	0.5071	
49	40.00	49.00	45.00	21.00	3	0.4000	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					
		LOWEST	HIGHEST	MEAN	VARIANCE			N	MEAN W.	LOWEST	HIGHEST	MEAN	VARIANCE	N	MEAN W.
Scaberanus brasiliensis (cont.)	59	27.00	56.00	37.67	45.88	12	0.3983	45.00	56.00	52.65	5.69	23	0.6087
	60	14.00	48.00	34.00	205.33	4	0.4500	51.00	62.00	55.35	9.87	23	0.7398
	68	35.00	60.00	51.75	128.92	4	0.7750	50.00	56.00	52.95	2.39	19	0.4684
	71	36.00	86.00	53.43	291.62	7	0.9429	55.00	65.00	60.42	4.75	33	0.8788
	93	65.00	75.00	70.00	16.67	4	1.5000	95.00	261.00	204.00	1980.00	4	33.9000
	95	38.00	62.00	51.71	59.24	7	0.8286	94.00	94.00	94.00		1	4.2000
	210	49.00	65.00	55.67	20.52	15	0.9367	72.00	72.00	72.00		1	1.7000
	289	35.00	55.00	44.24	28.57	17	0.5871	35.00	61.00	47.89	40.49	27	0.3185
	309	44.00	74.00	57.67	88.50	9	1.3111						
	313	60.00	89.00	74.29	195.24	7	2.6143						
	314	43.00	44.00	43.50	0.50	2	0.5000						
	314	28.00	38.00	34.70	7.12	10	0.2500						
	319	40.00	46.00	44.00	4.91	12	0.5000						
	322	42.00	64.00	47.30	31.68	23	0.7217						
	324	16.00	52.00	32.81	133.67	42	0.2976						
	325	63.00	68.00	65.50	12.50	2	1.5000						
	329	51.00	77.00	62.25	120.92	4	2.1250						
	337	45.00	60.00	52.50	112.50	2	2.0000						
	338	55.00	83.00	72.33	229.33	3	3.0000						
	344	30.00	70.00	41.23	30.94	80	0.4850						
353	43.00	46.00	45.75	4.92	4	0.6250							
369	28.00	64.00	42.00	69.75	33	0.4152							
372	60.00	61.00	60.50	0.50	2	1.2000							
376	41.00	56.00	48.00	79.00	3	0.6333							
377	53.00	75.00	62.00	106.20	5	1.2000							
387	43.00	65.00	51.75	100.92	4	0.7500							
388	36.00	84.00	52.10	206.52	20	0.8900							
402	48.00	77.00	58.45	100.27	11	0.9909							
404	51.00	64.00	57.50	84.50	2	1.1000							
405	22.00	72.00	50.50	332.29	8	0.9875							
407	36.00	82.00	54.90	150.09	20	0.9650							
SERMANTIDAE													
Epinepius adscensionis	163	24.00	45.00	34.85	35.02	26	0.7538						
Heanthis leptus	158	17.00	40.00	30.38	26.69	32	0.4875						
Holanthias hartmannensis	813	5.00	12.50	8.92	2.00	134	0.0097						
Mycterperca rubra	161	45.00	57.00	51.50	21.90	6	1.6917						
Mycterperca interstitialis	163	77.00	80.00	78.50	4.50	2	7.3000						
Mycterperca venansa	272	79.00	79.00	79.00		1	5.0000						
Mycterperca phenax	66	95.00	95.00	95.00		1	10.2000						
Serranus desalegeri	313	85.00	90.00	87.50	12.50	2	8.7500						
S H A R K S	152	16.00	37.00	26.66	43.02	29	0.3793						
Carcharias porosus	872	58.00	94.00	66.36	65.77	22	1.3664						

Rhizoprionodon porosus

Sphyrna tiburo

Sphyrna tiburo

Mustelus canis

S H R I H P S

Aristeomorphus sp

Aristeomorphus foliacea

Aristeus viridens

Pleustesomus edwardsianus

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
Plesiopeanaeus edwardsianus (cont.)							
<i>Nematocarcinus rotundus</i>	613	6.00	13.00	10.14	1.55	123	0.0089
	616	5.00	12.00	8.95	1.68	180	0.0067
Acanthephyra arata							
	682	13.00	17.50	15.72	1.46	29	0.0276
	683	12.50	19.00	16.35	1.34	84	0.0131
	1040	12.00	18.50	15.61	2.09	63	0.0476
	1041	10.50	19.50	15.55	3.84	96	0.0259
Acanthephyra eximia							
	743	12.00	20.00	16.39	4.35	31	0.0484
	1011	13.00	18.50	15.59	1.82	88	0.0216
	1012	12.00	18.50	15.85	2.49	55	0.0291
PENNEIDAE							
<i>Parapenaeus</i> sp							
	879	12.50	23.00	17.48	4.74	61	0.0361
<i>Parapenaeus longirostris</i>							
	878	8.00	13.00	10.38	1.68	38	0.0079
<i>Penaeopsis serrata</i>							
	823	7.50	13.50	9.93	2.31	35	0.0057
	702	8.00	22.50	13.86	12.64	63	0.0175
	703	13.00	21.50	16.98	7.84	27	0.0519
	742	9.50	15.50	13.34	1.07	53	0.0132
	780	5.50	15.50	9.71	4.84	55	0.0064
<i>Penaeus notialis</i>							
	83	11.00	20.00	14.55	3.14	88	0.0239
	82	12.00	21.00	15.59	4.09	39	0.0462
	90	10.50	17.50	13.75	2.13	126	0.0262
	131	10.50	21.00	13.16	1.89	129	0.0209
	152	11.50	18.50	15.58	4.27	12	0.0292
	166	13.00	18.00	15.75	2.75	12	0.0333
	172	13.50	21.50	16.88	6.78	12	0.0417
	173	10.50	21.50	15.98	5.01	61	0.0344
	174	11.00	18.00	14.04	3.24	98	0.0268
	207	12.00	17.50	15.00	3.14	15	0.0333
	232	10.50	16.50	13.03	3.75	16	0.0188
	255	5.00	8.00	6.00	3.00	3	0.0100
	256	13.00	20.00	15.44	7.47	9	0.0333
	258	17.00	17.00	17.00		2	0.0500
	260	13.00	19.50	15.79	2.28	17	0.0353
	262	11.50	13.00	12.30	0.45	5	0.0200
	269	9.00	14.50	11.47	1.63	18	0.0333
	277	12.50	18.50	14.46	2.77	25	0.0320
	279	14.00	20.00	15.53	2.93	18	0.0389
	289	9.00	20.00	12.77	6.46	30	0.0167
	295	4.00	18.00	8.35	18.02	62	0.0081
	296	8.00	17.50	13.01	5.79	95	0.0211
	321	14.50	20.00	17.47	2.87	18	0.0556
	330	15.00	20.00	17.00	3.43	8	0.0625
	361	13.50	17.00	15.11	2.01	14	0.0357
	366	14.00	19.00	16.13	1.84	48	0.0313
	368	14.00	20.00	16.52	3.49	48	0.0458
	383	16.00	22.00	18.29	3.09	35	0.0543
	384	13.00	21.00	15.44	4.43	36	0.0417
	385	12.00	20.00	15.65	3.15	51	0.0431

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Penaeus notialis</i> (cont.)							
	399	13.00	21.00	16.33	3.93	21	0.0476
	400	10.00	18.00	14.74	2.81	102	0.0270
	401	11.00	21.00	14.35	4.14	88	0.0352
	427	10.00	20.50	12.91	2.86	90	0.0167
	429	11.00	19.50	14.11	2.25	99	0.0232
	445	11.00	16.00	13.55	2.67	11	0.0455
	451	11.00	17.00	12.65	2.77	13	0.0231
	484	8.00	23.00	17.71	10.69	51	0.0529
	538	10.50	15.50	13.65	1.93	34	0.0176
	567	10.50	21.50	15.69	11.40	13	0.0154
	593	9.50	20.50	14.84	6.58	109	0.0275
	595	12.00	19.00	14.68	6.19	17	0.0353
	652	15.00	20.00	17.50	12.50	2	0.1000
	653	14.50	18.50	16.43	1.92	14	0.0500
	664	12.50	19.00	15.53	2.76	37	0.0378
	673	12.00	18.50	15.46	3.84	26	0.0346
	677	12.00	19.00	15.46	3.60	13	0.0462
	686	11.00	22.00	15.24	5.79	66	0.0333
	712	11.50	18.50	14.25	3.92	28	0.0357
	713	9.50	21.50	12.98	5.23	110	0.0182
	721	5.00	13.00	9.62	3.24	113	0.0071
	738	11.00	21.00	16.63	11.23	23	0.0391
	831	12.00	23.00	15.66	7.51	71	0.0331
	842	14.50	20.50	16.83	10.33	3	0.0333
	843	13.00	21.00	16.13	5.94	20	0.0425
	845	8.00	18.00	13.59	6.39	29	0.0345
	854	13.00	19.50	16.00	5.60	6	0.0500
	867	10.50	17.50	13.49	2.91	73	0.0658
	906	9.00	17.00	13.14	5.24	49	0.0204
	920	15.50	20.00	18.53	2.36	17	0.0580
	937	16.50	17.00	16.83	0.08	3	0.0433
	989	10.50	19.00	13.36	3.88	81	0.0195
	993	9.50	15.50	12.07	2.49	48	0.0125
	1007	11.00	20.50	15.61	5.91	65	0.0323
	1008	8.00	20.00	14.98	4.67	72	0.0386
	1009	12.00	20.00	15.03	3.15	164	0.0280
	1010	12.50	20.00	15.69	2.67	57	
	1014	6.00	20.00	14.15	4.78	135	0.0270
	1031	10.00	17.00	13.57	3.73	14	0.0250
	1038	12.00	16.00	13.43	1.87	7	0.0357
	1050	8.00	19.00	11.57	3.54	82	0.0146
	1051	6.50	17.50	9.90	2.66	166	0.0099
	1052	7.00	14.00	9.02	1.33	167	0.0066
	1063	6.00	10.00	7.82	0.93	31	0.0039
	1076	6.00	13.50	9.10	1.80	107	0.0065
	1082	14.00	21.00	17.79	3.40	28	0.0482
	1107	6.50	14.50	9.81	4.28	98	0.0082
	1171	9.00	13.00	12.00	3.00	5	0.0180
	1174	9.00	16.50	12.94	3.54	27	0.0185
	1183	7.00	17.00	12.12	3.29	92	0.0370
	1185	9.00	17.00	12.82	6.96	11	0.0182
	1191	7.50	18.50	12.81	6.57	82	0.0183
<i>Penaeus subtilis</i>							
	5	4.50	16.50	12.83	5.66	30	0.0367

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.	FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.	
		LOWEST	HIGHEST	MEAN	VARIANCE	N				LOWEST	HIGHEST	MEAN	VARIANCE	N		
<i>Penaeus brasiliensis</i> (cont.)	383	12.00	17.00	14.45	1.99	31	0.0290	<i>Penaeus brasiliensis</i> (cont.)	1176	11.00	19.50	14.85	4.56	26	0.0231	
	399	11.00	22.00	15.10	8.44	48	0.0438		1192	8.00	18.00	12.18	3.30	376	0.0146	
	400	9.00	15.00	11.57	1.09	75	0.0160	<i>Penaeus schmitti</i>	70	15.50	17.50	16.13	0.90	4	0.0625	
	423	11.00	16.00	13.81	2.52	13	0.0308		75	16.50	19.00	18.13	0.69	12	0.0458	
	427	7.00	14.50	11.37	1.12	75	0.0120		98	16.00	20.50	17.39	1.28	14	0.0571	
	441	6.50	15.50	10.37	1.67	107	0.0093		244	12.00	18.00	14.82	2.19	68	0.0317	
	445	11.00	13.00	12.00	0.37	17	0.0294		262	14.00	19.00	16.25	3.57	6	0.0417	
	451	10.00	13.50	11.58	0.90	20	0.0150		369	17.00	23.00	20.83	4.57	6	0.0667	
	466	12.00	24.00	17.82	6.57	34	0.0588		445	10.00	12.00	10.86	0.48	7	0.0286	
	467	15.00	22.00	18.02	4.26	51	0.0608		961	17.50	18.50	18.00	0.50	2	0.0600	
	473	19.00	22.00	18.50	6.90	11	0.0545		987	16.00	20.00	17.38	1.83	17	0.0412	
	484	8.00	17.00	12.38	6.76	13	0.0077		995	15.00	18.50	16.13	2.56	4	0.0750	
	486	11.50	22.50	15.68	7.85	45	0.0278	1002	15.00	19.50	16.64	1.40	21	0.0362		
	548	10.00	19.50	15.09	4.49	53	0.0302	1006	14.50	19.00	17.06	1.60	27	0.0379		
	567	10.50	17.00	12.94	4.09	9	0.0111	1054	12.50	17.50	14.68	0.77	97	0.0309		
	619	14.00	21.00	16.12	2.09	76	0.0434	1065	13.00	17.50	14.87	0.90	53	0.0283		
	626	15.00	22.00	17.43	2.65	80	0.0425	<i>Xiphopenaeus kroyeri</i>	15	4.50	11.50	8.23	2.01	90	0.0060	
	627	13.00	20.50	16.68	2.95	34	0.0441		46	4.50	12.00	8.29	3.35	74	0.0034	
	634	14.50	20.50	16.79	2.89	51	0.0431		62	6.50	13.00	10.02	1.99	96	0.0125	
	644	14.00	18.00	16.22	1.74	18	0.1056		69	7.00	12.00	9.66	1.58	130	0.0077	
	652	12.00	18.00	15.27	1.49	83	0.0313		70	5.00	11.50	9.18	1.22	123	0.0066	
	653	10.50	15.50	12.75	3.93	8	0.3125		75	7.00	13.00	9.82	1.54	59	0.0066	
	662	9.00	20.50	14.07	7.11	89	0.0247		76	6.00	14.50	8.79	3.22	77	0.0078	
	686	8.00	18.00	10.68	3.08	30	0.0167		85	7.00	12.50	9.80	1.06	103	0.0078	
	698	7.50	16.00	10.82	1.82	101	0.0084		98	7.50	13.00	9.80	1.73	22	0.0182	
	765	16.00	22.00	19.73	3.62	11	0.0626		543	5.00	12.00	8.99	0.76	228	0.0053	
	814	11.00	21.50	16.96	7.85	51	0.0392	641	5.00	12.00	7.41	1.76	133	0.0038		
	815	2.00	5.00	3.02	0.45	26	0.0231	733	5.50	11.50	8.38	1.45	59	0.0051		
	830	12.50	21.50	17.43	13.79	7	0.0357	948	8.00	12.50	10.76	0.88	53	0.0075		
	833	11.00	22.00	16.23	6.36	66	0.0379	985	5.00	12.50	8.76	1.99	123	0.0043		
	834	11.00	22.00	14.93	9.87	40	0.0400	1007	3.50	8.00	6.48	1.00	109	0.0032		
	842	12.00	22.00	15.94	7.33	34	0.0324	1065	3.50	10.50	7.14	2.43	69	0.0032		
	845	9.00	12.00	10.20	1.20	5	0.0200	1088	4.50	8.50	6.70	0.95	128	0.0031		
	854	13.00	20.50	15.42	4.95	12	0.0375	SOLENOGERIDAE	115	12.50	21.00	17.30	4.07	76	0.0382	
	881	9.00	19.00	12.85	5.47	50	0.0164		115	9.50	15.50	12.11	2.27	81	0.0136	
	919	14.50	14.50	14.50		2	0.0400		390	13.00	21.00	16.24	6.15	31	0.0323	
	936	14.00	21.00	16.87	3.30	52	0.0462		392	11.50	26.00	16.90	9.21	63	0.0302	
	937	13.50	22.50	16.83	3.03	32	0.0422		<i>Solenocera</i> sp	175	7.50	16.00	11.05	4.01	55	0.0182
	938	15.00	21.00	17.79	2.52	39	0.0564			516	7.50	14.00	10.85	2.40	75	0.0153
	939	15.00	20.50	17.07	3.66	21	0.0333			524	7.00	15.00	11.12	1.92	60	0.0200
	998	11.50	20.00	14.94	6.37	17	0.0371			525	7.00	14.50	10.71	3.24	38	0.0158
	1014	10.00	19.50	12.90	17.17	5	0.0400			568	13.00	20.00	16.81	3.00	48	0.0375
	1031	13.00	17.50	14.64	2.48	7	0.0286			576	8.00	16.00	11.63	3.37	56	0.0161
	1052	4.50	11.50	9.44	1.17	66	0.0083	579		12.00	22.00	16.15	7.09	47	0.0362	
	1072	4.50	11.00	8.14	2.93	50	0.0060	808		5.50	14.00	10.53	2.28	114	0.0132	
1073	4.00	10.00	6.68	2.76	52	0.0037	809	5.50		16.00	11.71	5.28	31	0.0258		
1073	4.00	10.00	6.68	2.76	52	0.0037	<i>Solenocera acuminata</i>	1093		10.00	17.00	13.31	2.80	39	0.0256	
1082	10.50	22.50	15.68	21.41	8	0.0500		1135	6.50	12.50	8.62	2.02	77	0.0084		
1084	12.50	18.00	15.29	2.26	14	0.0643		<i>Pleoticus robustus</i>								
1107	6.50	14.00	10.20	2.62	27	0.0185										
1118	12.50	17.50	15.61	1.47	36	0.0306										
1158	11.00	22.00	16.38	7.39	34	0.0294										
1159	11.00	27.00	15.27	9.14	52	0.0317										
1160	9.50	21.50	12.88	6.21	117	0.0154										
1174	10.00	17.50	14.14	4.78	11	0.0182										

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.	FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N				LOWEST	HIGHEST	MEAN	VARIANCE	N	
	11	14.50	21.00	16.44	3.72	24	0.0454	Sphyaena guachancho (cont.)	327	40.00	51.00	44.49	10.26	49	0.5041
	119	11.00	15.50	13.66	1.89	25		329	43.00	54.00	48.15	11.97	13	0.7231	
	418	17.00	23.50	21.33	1.56	32	0.0563	424	49.00	54.00	51.25	4.92	4	0.6250	
	419	13.00	27.50	19.15	7.29	48	0.0479	520	34.00	61.00	52.61	19.65	38	0.5921	
	421	13.00	19.00	15.26	1.77	58	0.0224	653	31.00	51.00	40.36	41.25	11	0.3636	
	790	14.00	25.00	19.21	6.48	166	0.0440	657	31.00	50.00	40.21	27.88	29	0.3034	
	796	14.00	24.50	18.77	9.28	41	0.0399	666	25.00	54.00	39.05	82.39	94	0.3191	
	910	13.50	27.00	19.38	8.86	124	0.0427	669	28.00	37.00	32.13	8.41	15	0.1400	
	911	3.00	5.00	4.40	0.54	15	0.0400	761	29.00	45.00	37.50	22.42	14	0.2429	
	922	17.00	23.50	20.00	4.65	24	0.0458	850	40.00	74.00	50.25	147.93	8	0.6250	
	923	7.00	9.50	8.11	0.57	33	0.0043	930	47.00	55.00	50.22	6.69	9	0.4889	
	978	8.50	14.00	11.49	1.79	43	0.0140	940	32.00	66.00	46.84	17.35	152	0.4697	
	979	10.00	13.50	11.68	0.70	19	0.0053	974	35.00	60.00	49.11	22.82	37	0.4979	
	1092	14.00	25.00	18.03	7.20	40	0.0275	986	41.00	54.00	47.65	9.82	59	0.4721	
	1093	13.00	22.00	16.88	7.68	24	0.0250	994	36.00	51.00	43.93	16.92	29	0.4138	
	1101	14.00	25.00	19.08	8.45	157	0.0490	997	30.00	52.00	42.25	29.67	16	0.3500	
	1130	13.00	24.00	18.00	6.63	58	0.0379	998	32.00	64.00	42.95	32.47	120	0.3750	
	1143	16.50	23.00	18.74	3.59	19	0.0421	1001	30.00	42.00	33.13	8.70	15	0.1861	
	1193	13.00	24.00	17.31	10.38	26	0.0385	1004	36.50	49.00	43.57	30.37	7	0.4286	
								1017	29.00	57.00	48.11	55.75	18	0.5167	
SPARIDAE								1025	46.00	64.00	54.54	23.31	35	0.7086	
Calanus calanus	40	21.00	35.00	27.82	10.73	22	0.3727	1046	44.00	61.00	50.06	20.60	16	0.5561	
	161	13.00	42.00	29.01	23.09	132	0.4409	1067	14.00	31.00	21.19	26.56	16	0.0625	
	1117	17.00	37.00	26.49	27.78	68	0.3596	1108	24.00	45.00	36.00	24.00	28	0.2265	
Calanus penna	234	23.00	33.00	27.43	7.25	47	0.4021	1140	20.00	54.00	31.56	87.93	32	0.2922	
	533	22.00	37.00	30.64	30.32	25	0.4680	1149	35.00	55.00	46.86	31.05	29	0.4793	
	827	20.00	38.00	26.42	17.93	38	0.2895								
	1153	24.00	36.00	29.85	14.98	20	0.4000	Sphyaena picudilla	77	26.00	37.00	32.09	6.93	46	0.1565
	1154	24.00	37.00	30.15	9.10	65	0.3846	112	23.00	39.00	31.46	15.47	85	0.1435	
	1157	21.00	32.00	27.04	7.23	23	0.3152	197	32.00	39.00	34.74	3.84	23	0.1804	
Calanus pennatula	504	20.00	39.00	30.74	15.28	106	0.4849	204	29.00	44.00	34.97	8.26	35	0.1771	
	519	28.00	38.00	32.06	9.43	17	0.5235	215	30.00	42.00	37.17	10.79	23	0.2935	
	798	27.00	39.00	34.05	9.68	55	0.6518	224	31.00	40.00	36.23	4.53	30	0.2200	
	816	28.00	36.00	33.08	7.17	12	0.5833	263	25.00	38.00	29.94	5.22	54	0.1389	
	864	11.00	25.00	18.75	7.17	48	0.1083	265	30.00	35.00	32.67	2.10	15	0.1733	
	888	9.00	24.00	17.09	8.41	103	0.8883	379	30.00	39.00	33.94	4.66	54	0.1852	
Pagrus pagrus	1100	28.00	40.00	34.09	8.93	53	0.5377	387	29.00	35.50	32.95	2.87	21	0.1619	
								485	23.00	37.00	26.85	7.37	54	0.8898	
SPHYRAENIDAE								535	30.00	40.00	36.28	5.19	50	0.1920	
Sphyaena guachancho	29	25.00	54.00	39.58	61.70	48	0.3333	536	33.00	42.00	36.54	4.66	26	0.2154	
	39	23.00	52.00	38.10	97.39	21	0.3095	554	27.00	39.00	29.65	3.55	54	0.1056	
	47	16.00	58.00	34.38	305.92	32	0.2750	557	27.00	46.00	31.09	16.49	69	0.1304	
	59	24.00	38.00	30.40	8.94	65	0.1462	562	17.00	28.00	20.75	9.21	60	0.1167	
	73	24.00	31.00	26.97	2.03	34	0.0824	667	20.00	36.00	30.26	4.51	101	0.1089	
	104	19.00	37.00	28.40	14.88	110	0.1291	678	23.00	37.00	32.00	13.23	14	0.1424	
	133	28.00	72.00	55.29	73.75	31	0.8581	761	28.00	36.00	32.92	6.27	12	0.1417	
	204	43.00	52.00	47.57	5.66	21	0.5095	846	24.00	42.00	31.58	8.51	100	0.1300	
	215	41.00	66.00	51.32	36.23	19	0.6737	853	32.00	39.00	34.05	2.85	21	0.1190	
	263	19.00	31.00	24.29	11.30	14	0.0714	861	29.00	38.00	32.61	4.98	23	0.1391	
	316	41.00	56.00	47.70	15.58	23	0.5652	876	27.00	40.00	31.96	9.00	28	0.1321	
								896	25.00	37.00	29.54	11.04	57	0.0965	
								900	24.00	36.00	31.41	9.79	98	0.1357	
								996	29.00	38.00	33.25	3.59	105	0.1648	
								997	23.00	35.00	31.13	4.81	30	0.1300	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE		
Sepvraena picuallia (cont.)	1001	24.00	51.00	35.58	65.90	12	0.1917
	1004	27.00	34.50	31.63	3.03	34	0.1206
	1023	23.00	45.00	33.19	37.56	31	0.1742
	1046	31.00	38.00	34.48	2.56	21	0.1905
	1149	30.00	39.00	32.70	6.29	27	0.1481
CEPHALOPODA							
Loligo sp	110	4.50	10.00	7.35	1.47	65	0.0138
Loligo pealei	28	3.00	17.50	5.30	4.38	133	0.0090
	35	5.00	11.00	6.67	2.36	43	0.0074
	36	7.00	21.50	11.24	15.32	54	0.0330
	42	3.00	19.00	9.70	27.05	172	0.0099
	45	4.00	18.00	9.01	11.07	42	0.0238
	49	3.00	9.00	6.23	1.30	75	0.0107
	50	2.00	10.00	4.01	1.32	202	0.0045
	53	4.00	21.00	7.89	15.51	72	0.0236
	54	6.00	19.50	9.91	9.90	40	0.0288
	55	6.00	18.50	9.93	18.54	7	0.0429
	65	3.00	21.00	6.20	5.54	100	0.0130
	77	2.00	9.00	4.78	1.00	150	0.0059
	109	4.00	11.00	7.58	1.85	62	0.0210
	113	3.00	11.00	6.44	2.44	89	0.0180
	123	4.50	13.00	8.25	3.75	30	0.0267
	136	2.00	11.00	5.45	4.11	99	0.0081
	138	2.50	11.00	5.09	3.85	135	0.0096
	147	5.00	15.00	9.10	2.18	70	0.0286
	156	4.00	14.00	5.65	1.60	107	0.0093
	166	2.00	11.50	5.12	2.86	69	0.0087
	168	2.00	13.50	6.03	2.87	96	0.0096
	222	6.50	18.50	11.40	3.43	78	0.0526
	224	4.00	12.00	6.39	3.36	33	0.0182
	225	11.00	25.50	17.27	26.78	13	0.0846
	253	3.50	14.00	6.19	3.08	49	0.0143
	255	4.50	14.00	6.99	5.70	76	0.0224
	264	5.00	29.00	15.98	40.18	51	0.0745
	271	3.00	18.00	7.13	9.16	105	0.0181
	288	3.50	13.00	8.05	4.01	54	0.0185
	296	6.00	22.00	10.30	14.45	27	0.0370
	297	2.00	16.50	6.39	7.75	54	0.0167
	306	4.50	17.00	10.19	7.01	29	0.0483
	326	6.00	19.00	12.68	10.63	141	0.0426
	362	4.00	12.00	6.69	5.16	16	0.0188
	380	2.00	10.00	5.62	3.62	94	0.0149
414	3.00	21.00	7.20	16.34	59	0.0271	
415	3.00	9.00	5.48	1.86	74	0.0122	
492	2.00	22.00	7.08	11.25	88	0.0233	
514	10.00	16.00	11.85	2.59	40	0.0550	
535	2.00	16.00	4.40	5.38	128	0.0189	
839	3.00	23.00	9.43	22.01	67	0.0149	
914	3.00	10.00	5.93	1.69	115	0.0122	
1024	2.00	7.00	4.94	2.33	35	0.0100	
1155	7.00	19.00	10.43	9.25	49	0.0378	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE		
Loligo pealei (cont.)	1178	4.00	11.00	6.49	2.71	88	0.0136
	1190	3.00	15.50	6.34	4.62	152	0.0076
	1201	6.50	16.00	10.38	3.94	32	0.0275
Loligo plei	123	4.50	12.00	7.83	3.18	21	0.0143
	125	4.00	22.00	6.94	7.45	107	0.0121
	138	5.50	15.50	9.25	2.79	63	0.0206
	141	3.00	12.00	6.69	3.55	95	0.0116
	147	9.00	30.00	15.20	21.14	46	0.0696
	151	3.00	25.00	6.63	13.62	86	0.0164
	156	4.00	22.00	7.68	16.43	31	0.0194
	166	2.50	12.50	6.21	3.72	52	0.0096
	179	3.50	16.00	6.91	7.72	145	0.0141
	204	3.50	16.00	6.57	11.34	97	0.0124
	210	3.50	14.00	6.97	4.83	68	0.0132
	214	3.00	14.50	6.36	4.62	107	0.0121
	224	4.00	18.50	5.82	4.38	78	0.0096
	225	3.00	22.00	8.93	21.67	107	0.0243
	253	4.00	24.00	8.27	18.86	71	0.0254
	255	5.00	20.00	9.48	9.40	67	0.0254
	266	12.00	26.00	15.45	10.62	47	0.0638
	271	4.00	22.00	11.36	26.93	64	0.0406
	323	2.00	24.00	7.29	18.18	123	0.0244
	324	4.00	25.00	9.56	12.77	66	0.0304
	332	7.00	15.00	9.73	4.64	33	0.0303
	333	3.00	11.00	7.85	2.28	67	0.0209
	335	2.50	15.50	7.35	6.54	148	0.0169
	336	3.00	19.00	6.62	8.62	105	0.0132
	340	3.00	18.00	6.59	7.44	113	0.0177
	341	3.00	18.00	7.80	8.94	150	0.0200
	342	2.00	13.00	5.88	6.78	104	0.0186
	345	2.00	14.00	5.22	3.87	208	0.0096
	346	6.00	14.00	7.88	2.09	104	0.0192
	347	3.00	20.00	7.13	6.98	72	0.0208
	352	3.50	15.00	9.43	6.62	94	0.0266
	362	2.00	11.00	5.71	2.89	136	0.0235
	380	3.00	14.00	6.44	6.66	59	0.0169
	424	4.00	22.00	8.79	15.80	66	0.0242
	462	2.00	20.00	7.12	5.68	229	0.0140
467	5.00	23.00	11.57	19.48	97	0.0330	
468	3.00	17.00	8.96	7.45	129	0.0217	
473	7.00	27.00	15.38	17.79	45	0.0689	
474	5.00	24.00	11.16	13.47	55	0.0382	
480	7.00	31.00	17.51	44.15	29	0.1207	
503	5.00	19.00	11.21	8.07	86	0.0407	
509	8.00	28.00	22.11	25.65	19	0.1316	
518	3.50	13.50	6.95	2.45	138	0.0101	
522	3.00	16.00	5.72	5.71	51	0.0137	
529	4.50	12.00	7.54	2.16	122	0.0148	
533	4.00	13.00	6.23	2.14	105	0.0185	
549	4.00	22.00	8.44	19.17	79	0.0241	
551	4.00	18.00	7.32	5.53	85	0.0165	
552	2.00	20.00	6.38	6.41	69	0.0145	
556	3.00	30.00	11.36	37.58	108	0.0463	

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.	FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.		
		LOWEST	HIGHEST	MEAN	VARIANCE	N				LOWEST	HIGHEST	MEAN	VARIANCE	N			
<i>Loligo plei</i> (cont.)	560	2.00	13.00	6.81	5.88	126	0.0151	<i>Illex</i> sp	986	2.50	8.00	3.73	0.95	68	0.0074		
	620	3.00	10.50	5.14	3.05	153	0.0063		1004	2.00	9.00	5.69	2.73	43	0.0163		
	645	3.00	17.00	4.95	3.69	120	0.0058		1009	3.50	10.00	6.19	3.25	45	0.0156		
	660	4.00	12.50	6.29	1.46	198	0.0096		6	6.50	17.00	12.20	6.30	47	0.0596		
	661	5.00	14.00	7.57	1.76	115	0.0104		17	4.00	13.00	6.60	4.87	64	0.0141		
	696	3.00	12.00	6.17	5.27	66	0.0152		<i>Illex coinetti</i>	191	8.50	16.00	11.33	3.30	36	0.0472	
	697	3.00	15.50	6.89	7.04	37	0.0162			192	9.00	17.00	12.40	2.48	72	0.0431	
	745	7.00	25.00	11.94	16.58	70	0.0300			790	15.00	24.00	18.31	4.61	87	0.1816	
	746	6.50	18.00	10.01	5.13	79	0.0259			796	15.00	25.00	17.85	4.52	47	0.1851	
	805	4.00	26.00	7.35	20.70	69	0.0145			809	6.00	17.00	14.00	10.44	10	0.1300	
	908	3.50	8.50	6.69	0.78	119	0.0092	810		16.00	22.50	17.95	2.30	28	0.1786		
	914	2.50	9.50	5.25	3.44	107	0.0065	822		8.00	24.00	14.95	9.83	111	0.1225		
	919	3.00	21.00	6.70	11.42	223	0.0193	826		5.50	18.00	9.28	5.29	65	0.0308		
	956	3.00	13.00	5.83	3.98	139	0.0068	<i>Illex illecebrosus</i>		120	8.00	19.50	12.09	4.69	124	0.0597	
	957	3.00	13.50	5.90	6.44	136	0.0081			STROPHATEIDAE <i>Peprilus paru</i>	304	18.50	28.50	23.65	5.32	58	0.2414
	958	3.00	22.00	7.82	15.56	164	0.0171		310		7.00	15.50	11.56	2.89	65	0.0387	
	959	15.00	29.00	21.12	9.09	66	0.0333		357		10.00	16.50	14.01	1.75	36	0.0556	
	962	3.00	13.00	7.07	5.41	49	0.0184		380		22.00	29.00	24.79	3.30	24	0.2709	
	963	3.00	15.00	4.99	4.68	147	0.0082		487		8.00	28.00	16.44	8.05	71	0.0988	
	964	2.00	14.00	6.17	8.54	103	0.0165		495		24.00	35.00	30.46	3.58	72	0.4889	
	966	4.00	17.00	8.43	8.74	70	0.0229		551		26.00	34.00	29.82	3.28	33	0.3333	
	972	2.00	9.00	4.25	1.45	59	0.0047		553		13.00	31.00	19.48	22.59	73	0.1174	
	973	3.00	19.00	8.61	21.78	62	0.0274		715		17.00	23.00	19.40	2.50	25	0.1200	
	976	3.00	23.00	9.47	23.77	75	0.0280	1025	20.00		36.00	31.31	13.26	26	0.4806		
	977	2.50	10.00	4.60	1.48	111	0.0054	59	14.00	29.00	22.13	15.75	40	0.1700			
	978	3.00	9.50	5.39	1.63	133	0.0195	103	20.00	36.00	30.23	14.33	53	0.4283			
	982	4.00	13.00	7.27	4.81	62	0.0137	104	15.00	33.00	19.64	17.24	33	0.1606			
	983	2.00	32.00	8.54	31.14	93	0.0091	253	18.00	31.00	25.55	4.51	40	0.2775			
	984	2.00	7.00	4.26	1.37	60	0.0050	263	22.00	32.00	27.38	5.32	29	0.3448			
	988	2.50	13.00	5.63	2.98	151	0.0079	SYNDONTIIDAE <i>Saurida brasiliensis</i>	10	14.00	30.00	21.96	15.39	47	0.0915		
	989	3.00	21.00	4.36	4.96	154	0.0058		<i>Synodus poeyi</i>	573	10.00	33.00	19.27	58.57	60	0.0883	
	991	3.00	10.50	4.34	1.64	149	0.0047			TRICHIURIDAE <i>Trichiurus lepturus</i>	167	30.00	130.00	77.44	245.94	78	0.4077
	992	2.00	10.50	4.34	1.64	149	0.0047				172	84.00	113.00	98.04	33.05	56	0.6719
	996	2.00	9.00	3.47	1.06	138	0.0034				194	85.00	140.00	112.30	101.31	61	1.1082
	1004	2.00	13.00	4.31	4.19	167	0.0057				197	90.00	119.00	102.50	32.74	34	0.7647
	1032	1.50	8.50	3.81	2.61	75	0.0053				238	45.00	110.00	76.25	251.67	16	0.3438
	1088	2.00	13.00	5.09	4.65	118	0.0064				240	50.00	100.00	77.67	151.39	49	0.3653
	1090	3.00	25.00	7.48	13.90	93	0.0161				328	25.00	95.00	70.87	249.21	23	0.3783
	1095	5.00	8.50	6.25	0.56	71	0.0099				406	42.00	90.00	76.48	91.41	46	0.2957
	1096	3.50	11.00	5.76	2.16	127	0.0087	541			11.00	91.00	38.93	199.14	94	0.0484	
	1097	2.50	15.50	6.27	5.74	96	0.0104	543	22.00		80.00	40.80	151.89	30	0.0833		
	1099	4.00	13.00	6.95	4.35	98	0.0128	553	30.00	62.00	51.71	39.50	52	0.0866			
	1107	3.00	11.50	5.51	1.37	91	0.0077										
	1133	7.50	17.50	11.28	6.67	20	0.0400										
	1137	4.00	19.00	7.78	13.25	193	0.0184										
	1153	3.00	12.50	5.46	4.82	65	0.0077										
	1155	5.00	12.00	7.19	1.63	69	0.0145										
1161	3.50	9.50	4.91	1.73	57	0.0062											
1163	2.00	7.50	4.16	1.42	89	0.0039											
1178	4.00	20.00	8.40	11.39	57	0.0263											
1186	3.00	17.00	6.02	6.97	98	0.0112											
1188	3.00	10.00	4.59	2.04	98	0.0071											
1189	5.00	26.00	9.29	9.47	118	0.0242											
<i>Loligo surinamensis</i>																	
	977	3.00	13.50	8.68	7.57	47	0.0468										

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE					MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE	N	
<i>Trichiurus lepturus</i> (cont.)	559	35.00	115.00	64.48	510.89	48	0.2042
	734	15.00	80.00	52.08	116.25	36	0.0889
	737	69.00	95.00	75.86	40.34	29	0.2207
	739	60.00	120.00	84.11	185.56	45	0.4356
	751	70.00	120.00	88.27	147.88	26	0.4769
	758	77.00	93.00	84.45	23.07	11	0.3364
	781	75.00	110.00	90.00	85.71	22	0.5591
	826	70.00	110.00	82.92	97.64	24	0.4084
	993	30.00	78.00	51.71	114.01	102	0.0912
	1179	70.00	99.00	76.46	24.25	54	0.1519
TURTLE							
<i>Lepidochelys olivacea</i>	62	65.00	65.00	65.00		1	

Annex 6. List of all species caught with reference to stations and catch.

Apendice 6. Lista de todas las especies capturadas, sus capturas por estacion.

ACANTHURIDAE	161(3.64) , 504(19.30)
Acanthurus bahianus	161(1.60) , 1080(0.52) , 1117(5.70)
Acanthurus chirurgus	161(2.00) , 163(3.80) , 316(3.00) , 504(3.60) , 623(2.60) , 798(55.90) , 884(1.00) , 900(0.80) , 901(1.00) , 904(0.40) , 953(0.60) , 1049(1.60) , 1080(4.83) , 1081(40.00) , 1122(0.00)
Acanthurus coeruleus	798(14.94)
ACROPOMATIDAE	
Synagrops sp.	106(0.00) , 114(6.40) , 185(0.00) , 391(3.20) , 525(0.00) , 526(2.25) , 576(7.20) , 682(5.95) , 780(17.80) , 823(0.10) , 826(23.40) , 878(6.53) , 897(0.24) , 899(1.80) , 905(0.00) , 925(0.45) , 1032(0.04) , 1102(0.24) , 1103(2.24) , 1118(0.16) , 1135(2.60) , 1136(6.60)
Synagrops bellus	107(33.90) , 120(24.00) , 139(10.00) , 145(0.00) , 146(0.00) , 158(0.20) , 164(4.80) , 175(1.20) , 185(0.20) , 186(3.30) , 187(0.80) , 188(4.80) , 190(0.10) , 191(4.00) , 199(0.00) , 200(2.13) , 217(3.20) , 218(0.00) , 267(4.20) , 393(9.71) , 395(4.80) , 396(12.90) , 397(11.40) , 398(8.10) , 416(1.90) , 417(34.00) , 418(24.55) , 419(21.30) , 457(0.40) , 524(46.50) , 525(27.79) , 526(1.50) , 568(30.80) , 577(14.00) , 578(0.00) , 579(5.45) , 593(0.00) , 594(0.52) , 601(0.18) , 684(6.00) , 685(5.00) , 742(0.72) , 800(7.50) , 808(2.45) , 811(19.50) , 812(4.50) , 822(20.10) , 879(1.65) , 892(0.20) , 1040(1.40) , 1041(1.25) , 1042(58.00) , 1043(41.60) , 1044(1.80) , 1094(32.00) , 1101(0.70) , 1118(0.08) , 1210(0.02)
Synagrops spinosus	1136(10.80)
ALBULIDAE	
Albula vulpes	9(1.80) , 118(3.60) , 205(13.80) , 216(6.44) , 220(0.20) , 287(0.30) , 293(0.40) , 316(15.40) , 406(18.00) , 522(2.88) , 566(19.60) , 626(8.00) , 627(0.80) , 830(12.00) , 861(1.50) , 863(1.00) , 902(2.16) , 1022(4.00) , 1054(6.00) , 1107(3.80) , 1128(6.60) , 1140(3.33) , 1144(3.60) , 1145(9.88) ,
Albula nanoptera	512(1.63) , 522(1.68) , 528(1.60) , 669(4.00) , 670(16.40) , 676(7.20) , 678(0.60) , 701(2.00) , 818(1.20) , 825(5.28) , 1010(1.20)
ALEPOCEPHALIDAE	
Talismania sp.	924(2.40) , 1011(0.40)
Talismania oregonia	980(1.00) , 1011(10.00) , 1012(1.20)
Xenodermichthys sp	1044(0.75) , 1045(0.60)
Xenodermichthys socialis	800(47.50)
	811(0.90) , 1040(0.30) , 1041(2.50) , 1044(0.60)
AMMOXYTIDAE	187(0.00) , 1131(9.60)
ANTENNARIIDAE	352(0.00) , 490(0.00) , 677(0.12)
Antennarius sp.	106(0.20) , 1137(0.00)
Antennarius radiosus	510(1.20)
Phrynelox scaber	473(0.40) , 1084(0.20)
ANTHIIDAE	776(0.50) , 777(1.36) , 789(0.80)
APOGONIDAE	6(6.00) , 7(2.00) , 11(17.10) , 127(0.00) , 180(0.00) , 184(3.60) ,

APOGONIDAE (cont.)

	207(	0.60)	, 227(	0.00)	, 483(	0.80)	, 525(	0.00)	, 791(	1.40)	, 812(	9.00)	,
	814(	2.46)	, 815(	18.50)	, 834(	3.20)	, 867(	0.00)	, 877(	0.40)	, 881(	1.20)	,
	890(	0.30)	, 906(	1.20)	, 981(	0.40)	, 1159(	2.28)	, 1160(	0.90)			
Apogon sp	187(	0.10)	, 208(	24.00)	, 226(	0.00)	, 277(	0.60)	, 382(	0.00)	, 383(	3.20)	,
	567(	1.50)	, 794(	3.00)	, 801(	0.00)	, 803(	0.40)	, 810(	0.50)	, 816(	0.00)	,
	905(	0.00)	, 954(	0.46)	, 990(	0.70)	, 1010(	1.00)	, 1118(	4.80)	, 1158(	1.60)	,
	1185(	1.00)	, 1191(	0.56)	, 1192(	3.00)	, 1202(	5.04)	, 1204(	2.00)	, 1210(	1.00)	,
Apogon pseudomaculatus	313(	1.00)	, 517(	0.20)	, 500(	0.00)	, 698(	0.80)					
Astrapogon sp.	1100(	14.40)	, 1118(	1.60)									
Astrapogon alutus	801(	6.80)	, 807(	2.80)	, 816(	0.00)							
Epigonus sp	120(	1.20)	, 143(	0.50)	, 147(	0.00)	, 193(	1.35)	, 209(	0.00)	, 218(	0.00)	,
	219(	0.00)	, 267(	2.80)	, 269(	3.60)	, 526(	0.00)	, 702(	2.40)	, 703(	1.30)	,
	809(	1.80)	, 823(	0.00)	, 1012(	55.80)	, 1151(	3.60)					
Epigonus macrops	189(	2.40)	, 199(	40.80)	, 217(	35.20)	, 390(	5.29)	, 392(	0.00)	, 395(	5.20)	,
	396(	3.30)	, 397(	12.30)	, 417(	2.40)	, 457(	0.60)	, 682(	0.85)	, 685(	4.40)	,
	812(	3.75)	, 980(	0.20)	, 1043(	3.60)	, 1044(	0.15)	, 1120(	1.20)			
Epigonus pandionis	1130(	0.28)											
ARIIDAE													
Ariopsis sp	1(	3.00)	, 2(	5.00)									
Ariopsis bonillai	289(	2.20)											
Arius sp	1(	45.00)	, 38(	0.00)	, 62(	0.00)	, 101(	8.57)	, 308(	20.00)	, 339(	2.00)	,
	466(	35.20)	, 699(	163.40)	, 700(	22.40)	, 1002(	2.24)	, 1065(	4.32)			
Arius grandicassis	15(	2.80)	, 25(	19.00)	, 38(	0.00)	, 74(	36.40)	, 75(	0.40)	, 76(	8.80)	,
	84(	11.60)	, 85(	23.00)	, 87(	17.20)	, 88(	8.60)	, 91(	2.00)	, 92(	14.60)	,
	94(	8.80)	, 95(	29.60)	, 96(	21.80)	, 98(	2.00)	, 339(	4.00)	, 356(	9.80)	,
	358(	1.85)	, 369(	32.00)	, 371(	68.00)	, 386(	67.60)	, 389(	44.00)	, 404(	0.60)	,
	447(	6.00)	, 454(	36.00)	, 638(	0.40)	, 641(	5.00)	, 655(	6.20)	, 665(	5.50)	,
	675(	47.60)	, 699(	135.40)	, 700(	14.40)	, 726(	11.60)	, 732(	8.80)	, 733(	3.40)	,
	734(	1.80)	, 946(	8.40)	, 965(	45.20)	, 985(	20.40)	, 987(	25.40)	, 993(	7.20)	,
	995(	0.90)	, 1002(	23.60)	, 1005(	10.00)	, 1006(	31.60)	, 1006(	7.20)	, 1018(	4.00)	,
	1029(	6.60)	, 1037(	22.00)	, 1038(	6.00)	, 1069(	1.60)	, 1075(	21.20)	, 1182(	76.43)	,
Arius quadriscutis	46(	4.80)	, 47(	3.40)	, 75(	26.80)	, 76(	19.80)	, 85(	2.60)	, 95(	12.40)	,
	96(	10.40)	, 96(	7.20)	, 369(	17.20)	, 371(	64.00)	, 386(	22.60)	, 389(	26.80)	,
	402(	12.00)	, 965(	2.60)	, 985(	1.40)	, 993(	7.40)	, 995(	1.20)	, 1002(	22.60)	,
	1006(	1.20)	, 1039(	20.80)									
Arius proops	1(	43.20)	, 369(	3.00)	, 640(	22.40)	, 965(	1.60)	, 1037(	12.00)	, 360(	18.51)	,
	945(	0.00)	, 637(	4.60)	, 985(	2.60)							
Bagre sp.	405(	5.40)	, 406(	84.60)	, 442(	0.00)	, 695(	6.20)					
Bagre bagre	1(	9.60)	, 2(	0.00)	, 15(	2.20)	, 25(	5.40)	, 43(	1.60)	, 61(	3.90)	,
	62(	7.80)	, 68(	2.00)	, 69(	1.10)	, 74(	29.20)	, 75(	4.00)	, 75(	0.60)	,
	76(	6.40)	, 84(	9.80)	, 86(	12.00)	, 87(	15.60)	, 88(	0.80)	, 92(	15.00)	,
	95(	14.40)	, 96(	28.80)	, 98(	16.80)	, 101(	4.29)	, 262(	0.00)	, 294(	0.00)	,
	308(	160.00)	, 309(	0.40)	, 310(	5.60)	, 312(	0.00)	, 322(	58.60)	, 328(	2.60)	,
	339(	0.80)	, 354(	12.00)	, 356(	14.00)	, 358(	11.08)	, 360(	3.43)	, 369(	4.00)	,
	371(	10.40)	, 375(	6.00)	, 378(	1.80)	, 386(	3.80)	, 389(	0.60)	, 389(	1.80)	,
	402(	2.00)	, 427(	12.40)	, 429(	8.80)	, 433(	9.20)	, 448(	8.20)	, 559(	0.60)	,
	638(	0.80)	, 639(	16.80)	, 640(	14.40)	, 641(	10.00)	, 654(	7.00)	, 655(	3.00)	,
	665(	2.20)	, 668(	2.40)	, 675(	36.40)	, 676(	2.40)	, 699(	23.40)	, 700(	1.60)	,
	705(	7.00)	, 706(	5.60)	, 707(	16.00)	, 941(	40.60)	, 944(	20.00)	, 947(	3.36)	,
	948(	15.60)	, 961(	10.80)	, 965(	4.00)	, 967(	13.00)	, 985(	12.80)	, 987(	33.00)	,
	993(	12.80)	, 995(	6.60)	, 999(	6.00)	, 1002(	23.80)	, 1005(	47.50)	, 1006(	0.40)	,
	1015(	1.00)	, 1018(	5.60)	, 1030(	8.00)	, 1060(	1.20)	, 1061(	0.00)	, 1065(	4.08)	,
	1076(	4.90)	, 1077(	1.11)									
Bagre marinus	25(	6.20)	, 38(	22.60)	, 46(	9.60)	, 51(	0.27)	, 70(	1.60)	, 79(	20.60)	,

Bagre marinus (cont.)

86(	3.60)	, 87(	10.40)	, 92(	9.00)	, 96(	4.40)	, 124(	309.40)	, 128(	3.00)	,
132(	0.55)	, 133(	1.40)	, 134(	244.00)	, 142(	50.00)	, 143(	1.00)	, 150(	1024.40)	,
165(	3.20)	, 166(	2.00)	, 173(	1.40)	, 130(	131.40)	, 135(	806.40)	, 152(	43.60)	,
216(	1.20)	, 220(	7.60)	, 223(	2.20)	, 237(	1.80)	, 244(	6.60)	, 244(	0.00)	,
286(	0.40)	, 287(	1.00)	, 289(	2.00)	, 291(	0.80)	, 292(	3.00)	, 294(	3.00)	,
295(	1.20)	, 297(	1.00)	, 298(	0.80)	, 328(	1.00)	, 360(	3.43)	, 404(	14.00)	,
433(	1.60)	, 438(	2.40)	, 445(	5.00)	, 446(	16.80)	, 447(	12.00)	, 447(	3.60)	,
448(	10.60)	, 452(	30.00)	, 453(	4.00)	, 493(	4.46)	, 559(	5.80)	, 624(	6.40)	,
625(	6.00)	, 675(	39.20)	, 709(	9.00)	, 716(	2.00)	, 720(	11.20)	, 720(	4.60)	,
721(	10.20)	, 730(	4.60)	, 747(	12.00)	, 748(	2.25)	, 762(	2.40)	, 856(	4.40)	,
1003(	3.40)	, 1004(	0.40)	, 1005(	2.60)	, 1006(	1.60)	, 1006(	0.52)	, 1015(	4.80)	,
1017(	18.80)	, 1029(	21.80)	, 1031(	4.00)	, 1036(	0.90)	, 1037(	30.00)	, 1038(	7.20)	,
1051(	5.40)	, 1054(	2.20)	, 1055(	12.00)	, 1056(	22.40)	, 1058(	8.50)	, 1059(	10.00)	,
1060(	21.20)	, 1061(	24.32)	, 1062(	0.00)	, 1064(	1.50)	, 1068(	18.60)	, 1069(	1.60)	,
1069(	1.60)	, 1070(	2.20)	, 1075(	40.80)	, 1076(	24.00)	, 1084(	4.40)			

Cathorops sp

1169(21.20)

Cathorops spixii

242(	45.00)	, 754(	14.80)	, 851(	3.70)	, 1083(	2.80)	, 738(	3.20)	, 1082(	8.70)	,
756(	108.34)	, 1084(	370.00)	, 1088(	0.80)	, 464(	2.00)	, 488(	40.68)	, 752(	468.00)	,
485(	1690.00)	, 725(	6.00)									

ARGENTINIDAE

742(0.00)

Argentina sp.

107(	0.00)	, 393(	0.00)	, 524(	0.60)	, 525(	2.53)	, 526(	2.25)	, 576(	0.90)	,
577(	2.00)	, 578(	2.00)	, 579(	5.45)	, 594(	2.61)	, 601(	0.00)	, 780(	6.65)	,
790(	0.15)	, 809(	2.10)	, 822(	0.15)	, 823(	4.00)	, 826(	0.00)	, 878(	1.80)	,
879(	1.90)	, 899(	0.60)	, 1093(	3.78)	, 1094(	5.60)	, 1119(	1.50)	, 1129(	7.20)	,
1130(	0.28)	, 1135(	3.00)	, 1136(	2.11)	, 1143(	1.50)	, 1194(	0.45)			

Argentina striata

217(	0.00)	, 145(	0.00)	, 139(	11.50)	, 185(	0.50)	, 188(	1.60)	, 191(	0.00)	,
200(	0.53)	, 218(	0.20)	, 146(	1.50)	, 186(	1.20)	, 199(	0.18)	, 219(	0.00)	,
164(	0.40)	, 190(	0.00)	, 189(	1.20)							

ARIOMMIDAE

Ariomma sp

979(41.60), 1096(0.00), 1137(0.06), 1192(0.20)

Ariomma bondi

32(	7.40)	, 34(	0.00)	, 35(	26.40)	, 114(	11.20)	, 157(	0.00)	, 181(	0.10)	,
188(	0.00)	, 191(	1.80)	, 193(	58.05)	, 196(	0.20)	, 203(	0.00)	, 204(	0.80)	,
207(	0.00)	, 214(	0.00)	, 253(	0.40)	, 254(	0.20)	, 255(	0.40)	, 264(	0.00)	,
271(	1.60)	, 315(	4.00)	, 348(	0.70)	, 367(	1.20)	, 416(	0.20)	, 456(	1.60)	,
460(	5.00)	, 469(	0.00)	, 479(	15.40)	, 482(	18.90)	, 483(	0.00)	, 492(	12.30)	,
495(	9.60)	, 500(	0.24)	, 503(	2.00)	, 514(	1.80)	, 515(	0.12)	, 517(	15.20)	,
519(	0.00)	, 521(	0.40)	, 525(	0.32)	, 611(	0.60)	, 647(	88.00)	, 661(	0.60)	,
736(	0.00)	, 742(	0.48)	, 771(	1.00)	, 776(	0.20)	, 789(	0.00)	, 806(	0.00)	,
812(	495.00)	, 933(	0.60)	, 1033(	20.00)	, 1042(	3282.80)	, 1092(	1.75)	, 1094(	12.80)	,
1118(	1.20)	, 1119(	3.00)									

Ariomma melanum

107(	0.30)	, 109(	0.30)	, 127(	2.00)	, 139(	6.00)	, 185(	0.20)	, 187(	0.30)	,
472(	0.00)	, 780(	309.00)	, 791(	19.20)	, 809(	0.90)	, 811(	0.30)	, 822(	2.55)	,
878(	2.70)	, 1129(	1.20)	, 1150(	0.11)							

Ariomma regulus

31(	3.60)	, 35(	0.00)	, 36(	0.30)	, 53(	0.20)	, 54(	0.30)	, 56(	1.80)	,
57(	3.40)	, 65(	0.90)	, 109(	27.60)	, 110(	0.00)	, 176(	4.00)	, 315(	3.20)	,
346(	0.30)	, 348(	1.40)	, 374(	6.20)	, 458(	0.00)	, 460(	1.00)	, 661(	0.00)	,

ATELEPODIDAE

1120(0.70)

Ijimaia loppei

1142(0.60), 1193(0.30)

ATHERINIDAE

280(0.00)

AULOPIIDAE

Aulopus nanus

158(0.60)

AULOSTOMIDAE

Aulostomus maculatus 148(1.80) , 161(0.20) , 163(0.40) , 504(1.00) , 954(0.09) , 1100(1.44) ,
1117(2.40)

BATHYLAGIDAE

Bathylagus longirostris 392(0.00)

BALISTIDAE

Balistes capriscus 58(109.00) , 57(19.00) , 168(12.80) , 173(6.00) , 174(1.40) , 196(1.80) ,
232(0.60) , 234(6.40) , 265(2.60) , 281(44.60) , 283(11.80) , 285(2.60) ,
286(0.20) , 287(1.80) , 288(0.60) , 289(0.80) , 291(0.40) , 296(0.60) ,
297(0.40) , 495(6.60) , 531(2.00) , 565(13.60) , 574(3.00) , 583(5.00) ,
585(65.00) , 587(97.60) , 588(41.40) , 589(22.40) , 591(1.83) , 595(1.80) ,
599(1.00) , 602(4.40) , 604(0.40) , 606(0.80) , 607(17.40) , 608(14.77) ,
650(2.40) , 651(0.00) , 762(3.00) , 804(1.10) , 805(0.60) , 830(18.00) ,
863(13.80) , 883(12.60) , 884(0.70) , 886(2.20) , 888(2.20) , 902(19.20) ,
903(5.00) , 904(0.80) , 910(0.60) , 936(4.36) , 950(27.00) , 951(4.20) ,
957(1.00) , 1099(0.62) , 1133(1.40) , 1184(16.00) , 1196(0.80) , 1197(616.00) ,
1201(0.70) , 1205(5.40) , 1206(0.40)

Balistes vetula

12(0.00) , 32(4.00) , 40(0.60) , 53(0.60) , 58(2.80) , 125(2.20) ,
126(1385.60) , 149(24.00) , 161(7.70) , 163(32.00) , 176(5.20) , 180(6.00) ,
316(5.40) , 349(2.20) , 350(26.60) , 364(48.00) , 366(26.00) , 374(0.60) ,
423(1.20) , 456(8.00) , 463(2.86) , 468(0.80) , 478(12.00) , 492(2.70) ,
504(68.00) , 508(5.60) , 509(5.40) , 565(3.20) , 566(9.60) , 580(2.57) ,
583(4.40) , 584(6.40) , 588(15.60) , 592(0.30) , 602(0.40) , 608(3.23) ,
629(17.60) , 778(143.00) , 779(5.60) , 783(2.00) , 786(7.20) , 798(273.00) ,
828(4.00) , 829(6.80) , 863(4.20) , 866(8.80) , 884(2.40) , 888(0.60) ,
894(9.40) , 900(32.00) , 901(8.80) , 902(0.24) , 905(0.70) , 904(14.10) ,
906(1.00) , 907(4.80) , 910(1.20) , 923(1.20) , 933(2.40) , 950(2.70) ,
951(8.40) , 953(27.00) , 957(0.20) , 990(2.46) , 1049(2.64) , 1079(1.00) ,
1080(91.43) , 1081(220.00) , 1117(19.60) , 1122(0.00) , 1126(8.00) , 1127(6.80) ,
1157(0.96) , 1197(7.00) , 1206(6.20) , 426(4.00) , 658(5.60) , 749(1.80) ,

BATRACHOIDIDAE

Batrachoides surinamensis 358(1.38) , 1002(2.60)

Forichthys sp

10(0.00) , 46(0.00) , 52(0.00) , 64(0.80) , 82(0.80) , 84(0.00) ,
88(1.60) , 89(0.30) , 90(2.00) , 91(2.00) , 94(1.80) , 103(0.00) ,
104(0.80) , 130(0.90) , 131(2.40) , 132(0.20) , 150(11.44) , 152(0.40) ,
154(1.20) , 153(5.40) , 167(0.52) , 173(3.20) , 174(2.08) , 198(0.00) ,
208(0.00) , 220(0.10) , 227(0.72) , 233(0.00) , 251(0.00) , 256(0.12) ,
258(0.00) , 260(0.00) , 262(0.00) , 266(0.00) , 267(0.00) , 268(0.28) ,
279(0.00) , 289(0.60) , 295(0.16) , 296(4.80) , 297(0.00) , 299(0.00) ,
321(3.00) , 330(1.60) , 331(0.80) , 352(4.40) , 354(0.50) , 355(1.20) ,
360(0.00) , 361(0.20) , 365(0.00) , 366(8.80) , 367(1.20) , 368(0.80) ,
377(0.10) , 382(0.30) , 383(3.20) , 384(0.80) , 385(0.40) , 399(3.00) ,
400(2.40) , 401(1.20) , 408(0.00) , 409(0.00) , 410(7.70) , 416(0.80) ,
427(3.60) , 430(0.80) , 432(0.20) , 433(0.80) , 438(8.40) , 439(1.60) ,
441(8.00) , 442(6.00) , 443(3.20) , 444(2.40) , 461(1.60) , 466(16.00) ,
467(2.00) , 484(2.60) , 490(1.60) , 491(0.00) , 547(0.00) , 548(3.20) ,
558(1.20) , 559(1.80) , 573(0.00) , 577(0.00) , 593(2.10) , 595(0.40) ,
596(1.20) , 619(10.40) , 627(2.80) , 628(1.80) , 631(0.30) , 633(4.80) ,
634(4.00) , 644(2.40) , 652(2.40) , 653(3.00) , 654(0.00) , 698(1.60) ,
713(5.00) , 737(0.12) , 814(0.00) , 815(0.00) , 899(1.20) , 951(0.00) ,
954(0.00) , 1088(0.20) , 1125(0.40) , 1135(0.00) , 1141(0.00) , 1152(0.00) ,
1159(0.00) , 1162(0.13) , 1175(0.05) , 1192(0.00) , 1210(0.20)

Forichthys bathoiketes

510(0.40) , 681(0.00) , 1134(0.76) , 1156(0.00) , 1176(0.24) , 1182(0.42) ,

Porichthys bathoiketes (cont.)	1183 (0.50) , 1191 (0.36)
Porichthys pauciradiatus	186 (0.90) , 446 (2.20) , 486 (1.60) , 539 (1.00) , 567 (3.00) , 618 (0.00) , 643 (15.60) , 651 (1.20) , 663 (0.00) , 673 (1.20) , 677 (4.00) , 686 (1.20) , 691 (0.00) , 711 (0.60) , 721 (0.00) , 723 (3.20) , 725 (5.60) , 729 (8.00) , 735 (0.00) , 794 (0.40) , 803 (0.40) , 830 (0.00) , 833 (2.88) , 840 (0.00) , 843 (0.00) , 846 (1.20) , 856 (0.20) , 867 (0.00) , 403 (0.80) , 538 (0.00) , 603 (0.60) , 650 (0.00) , 672 (0.80) , 679 (0.00) , 695 (0.30) , 722 (0.00) , 726 (0.00) , 738 (0.20) , 816 (0.00) , 834 (0.80) , 845 (0.00) , 858 (2.64) , 470 (0.00) , 626 (12.00) , 676 (0.00) , 712 (2.40) , 730 (0.00) , 831 (0.38) , 854 (1.60) , 546 (6.00) , 687 (2.00) , 801 (0.00) , 662 (1.60) , 842 (0.90) , 724 (3.00) , 868 (0.00) , 905 (0.90) , 920 (0.00) , 937 (2.10) , 939 (0.00) , 950 (0.06) , 890 (0.00) , 936 (2.18) , 949 (5.80) , 906 (0.60) , 968 (0.84) , 938 (0.40) , 970 (0.14) , 989 (0.30) , 1000 (0.60) , 1008 (1.04) , 1010 (2.50) , 1021 (0.00) , 1023 (5.40) , 1031 (2.50) , 1038 (1.20) , 1053 (1.80) , 1062 (19.80) , 1070 (0.00) , 1072 (1.36) , 1074 (0.00) , 1082 (2.40) , 1088 (0.00) , 981 (0.00) , 1007 (2.20) , 1014 (1.40) , 1027 (1.50) , 1052 (15.80) , 1064 (0.00) , 1073 (2.40) , 1084 (30.00) , 990 (2.80) , 1022 (7.50) , 1061 (0.00) , 1076 (2.40) , 1009 (2.40) , 1071 (1.60) , 1037 (0.40) , 1091 (0.08) , 1096 (0.10) , 1107 (2.40) , 1118 (0.00) , 1159 (0.06) , 1160 (0.60) , 1170 (0.00) , 1172 (0.10) , 1174 (2.68) , 1183 (0.16) , 1184 (0.00) , 1185 (1.00) , 1192 (0.20) , 642 (28.11)
Thalassophryne natteneri	354 (1.00)
Thalassophryne maculosa	791 (0.00) , 794 (1.50) , 795 (0.40) , 803 (0.60) , 1099 (0.02) , 1118 (0.16) ,
BELONIDAE	
Abiennas hians	234 (1.40) , 1030 (2.00)
Tylosurus crocodilus	758 (2.10)
Tylosurus acus acus	1128 (1.00)
BERYCIDAE	
Beryx decadactylus	684 (5.40) 139 (0.00) , 790 (0.10)
BIVALVES	
Oliva sp	1178 (11.88) , 677 (6.80) , 843 (14.80) 82 (3.32)
Pecten sp	255 (0.60) , 1185 (22.50) , 266 (3.20) , 467 (4.00) , 494 (8.70)
Atrina rigida	82 (0.00)
VENERIDAE	
Mercenaria sp	83 (5.00) 82 (5.60)
BOTHIDAE	
Ancylopsetta sp.	82 (0.70) , 115 (0.00) , 146 (0.00) , 164 (0.00) , 231 (0.00) , 279 (0.00) , 438 (5.60) , 439 (1.60) , 442 (3.00) , 450 (0.09) , 451 (0.40) , 557 (0.00) , 576 (3.60) , 577 (2.40) , 578 (1.00) , 594 (0.13) , 605 (0.00) , 652 (0.80) , 662 (0.60) , 808 (0.00) , 1014 (0.14)
Ancylopsetta dilecta	467 (2.00) , 601 (0.71) 106 (1.20) , 140 (0.50) , 144 (0.10) , 175 (1.50) , 185 (0.10) , 186 (0.60) , 187 (0.40) , 188 (0.20) , 490 (9.60) , 492 (0.30) , 526 (0.30) , 784 (0.60) , 791 (0.20) , 1010 (0.30) , 1024 (0.20) , 1134 (0.30)
Ancylopsetta quadrocellata	82 (0.80) , 184 (0.90) , 458 (0.60) , 470 (0.80) , 536 (0.60) , 783 (0.40) , 842 (0.90) , 148 (3.60) , 468 (1.00) , 749 (0.40) , 385 (0.00) , 784 (0.80) , 486 (0.00) , 1095 (2.20) , 1095 (0.18) , 1096 (2.00) , 1098 (0.10) , 1099 (0.22) , 1162 (0.11) , 1185 (2.50)
Bothus sp	157 (0.00) , 258 (0.00) , 442 (0.00) , 445 (1.00) , 467 (0.00) , 626 (0.00) , 644 (0.00) , 679 (0.04) , 713 (0.60) , 1107 (0.40) , 1127 (0.04)
Bothus ocellatus	154 (0.20) , 176 (0.00) , 485 (0.00) , 518 (0.00) , 959 (0.60) , 1090 (0.04) , 1097 (0.10) , 1116 (1.26) , 1123 (0.50) , 1124 (0.12) , 1125 (0.40) , 1127 (0.02) , 1137 (0.00) , 1157 (0.20) , 1196 (0.04) , 1204 (0.00) , 1205 (0.02) , 1207 (0.12) ,

<i>Bothus lunatus</i>	187(0.02) , 188(1.60) , 347(0.20) , 474(1.60) , 795(2.00) , 801(0.00) , 803(0.20) , 807(0.00) , 830(0.00) , 885(0.00) , 936(0.00) , 953(0.12) , 1104(3.00) , 1134(0.16)
<i>Chascanopsetta</i> sp	176(0.00)
<i>Chascanopsetta lugubris</i>	392(0.00) , 417(0.00)
<i>Citharichthys</i> sp	17(0.00) , 78(0.00) , 88(0.00) , 89(0.00) , 90(0.00) , 94(0.00) , 106(0.40) , 148(0.00) , 167(0.30) , 174(0.00) , 175(2.40) , 169(0.00) , 184(1.20) , 188(0.08) , 198(0.60) , 220(0.00) , 230(0.80) , 256(0.00) , 431(0.20) , 443(1.60) , 652(0.40) , 723(4.00) , 724(3.80) , 730(0.00) , 1014(0.00)
<i>Citharichthys cornutus</i>	114(0.00) , 169(0.38) , 173(0.40) , 186(0.00) , 198(0.00) , 801(0.00) , 1137(0.04)
<i>Citharichthys epilopterus</i>	989(0.20) , 990(0.14) , 1000(0.80) , 1008(0.56) , 1009(1.00) , 1010(1.30) ,
<i>Cyclopsetta</i> sp.	427(1.80) , 429(2.40) , 814(0.60) , 1052(2.10) , 1053(1.50) , 1058(2.08) , 1063(1.44) , 1064(0.24) , 1072(0.48) , 1073(1.20)
<i>Cyclopsetta chittendeni</i>	17(1.40) , 84(2.00) , 88(0.96) , 103(1.40) , 271(1.20) , 272(1.20) , 295(0.40) , 361(0.40) , 400(2.40) , 401(0.80) , 414(1.00) , 441(1.60) , 514(1.60) , 529(0.80) , 567(1.50) , 619(1.60) , 671(3.21) , 672(0.80) , 673(0.60) , 677(0.60) , 679(0.60) , 686(1.20) , 698(2.80) , 712(1.20) , 723(0.40) , 724(0.00) , 737(3.40) , 744(1.60) , 764(3.80) , 769(1.80) , 801(1.80) , 807(2.40) , 817(2.40) , 818(1.00) , 834(2.00) , 842(0.00) , 881(1.60) , 893(1.20) , 905(0.30) , 911(0.20) , 997(0.80) , 1000(1.60) , 1007(0.04) , 1008(2.16) , 1009(0.00) , 1010(3.00) , 1014(1.00) , 1020(1.10) , 1025(1.60) , 1026(2.60) , 1027(1.00) , 1034(1.90) , 1051(0.30) , 1052(0.36) , 1050(0.90) , 1059(0.40) , 1064(0.04) , 1071(1.64) , 1106(2.80) , 1125(0.60) , 1127(1.30) , 1144(2.20) , 1145(4.94) , 1146(2.30) , 1148(2.80) , 1149(1.60) , 1152(0.80) , 1153(1.74) , 1159(0.36) , 1183(0.60) , 1204(0.00)
<i>Cyclopsetta fimbriata</i>	299(0.82) , 1098(0.24) , 1100(12.00) , 1104(1.80) , 1133(1.50) , 1160(2.40) , 1176(0.02) , 1192(0.00) , 1201(0.80)
<i>Engyophris</i> sp	331(0.00)
<i>Etopus</i> sp	1176(0.00)
<i>Gastropsetta frontalis</i>	1116(0.60) , 1123(0.26) , 1125(0.80) , 1131(0.20)
<i>honolene</i> sp	217(0.00) , 222(0.00) , 524(0.00) , 525(0.32) , 526(0.07) , 808(0.35) , 809(0.30)
<i>Paralichthys</i> sp	8(0.00) , 601(0.00)
<i>Paralichthys tropicus</i>	123(4.44) , 130(6.40) , 133(2.10) , 135(1.20) , 144(1.60) , 148(1.80) , 150(8.60) , 152(1.40) , 183(1.20) , 184(5.80) , 197(4.50) , 230(2.40) , 464(6.00) , 479(1.00) , 486(5.50) , 488(2.64) , 491(2.20) , 499(3.00) , 511(3.00) , 518(4.00) , 549(3.00) , 556(0.73) , 628(1.80) , 737(2.20) , 738(3.40) , 750(1.00) , 770(9.30) , 792(0.00) , 794(0.60) , 805(0.70) , 815(8.00) , 825(4.32) , 834(2.00) , 840(16.50) , 854(0.80) , 972(0.20) , 1020(1.00) , 1021(8.80) , 1027(3.00) , 1031(2.60) , 1079(1.00) , 1080(0.26) , 1082(9.30) , 1088(1.00) , 1095(4.00) , 1096(3.40) , 1099(1.16) , 1104(2.60) , 1105(2.80) , 1106(12.00) , 1113(2.00) , 1114(6.53) , 1115(2.70) , 1132(2.00) , 1133(1.40) , 1134(11.10) , 1137(3.40) , 1152(2.80) , 1153(1.40) , 1154(0.83) , 1155(0.10) , 1158(1.00) , 1178(1.00) , 1184(0.00) , 1189(2.50) , 1190(3.40) ,
<i>Paralichthys albogutta</i>	382(0.60) , 472(2.40) , 473(0.10)
<i>Paralichthys lethostigma</i>	409(34.55) , 562(1.80)
<i>Syacium</i> sp.	430(1.60) , 458(0.20) , 468(0.20) , 518(0.00) , 600(0.00) , 619(1.60) , 626(8.00) , 651(1.20) , 652(2.80) , 672(0.60) , 673(1.20) , 677(0.12) , 686(2.40) , 687(0.40) , 689(0.40) , 725(0.40) , 726(0.00) , 772(3.20) , 803(0.40) , 817(0.00) , 846(0.00) , 1082(1.80) , 1097(0.30) , 1098(1.00) , 1099(0.80) , 1100(4.80) , 1104(3.00) , 1105(0.00) , 1106(9.00) , 1107(1.04) , 1123(1.80) , 1131(0.20) , 1132(0.10) , 1135(0.28) , 1135(0.04) , 1138(0.12) , 1139(0.20) , 1146(0.06) , 1148(0.08) , 1156(0.80) , 1159(0.24) , 1160(0.18) , 1163(0.04) , 1171(0.00) , 1176(0.04) , 1183(0.16) , 1185(0.30) , 1192(0.00) ,

Syacium sp. (cont.)

	1206(	0.00)	,1209(	0.08)								
Syacium micrurum	312(	0.00)	,340(	0.40)	,352(	0.40)	,383(	0.80)	,388(	0.00)	,392(	0.00)
	394(	0.40)	,403(	1.60)	,416(	4.40)	,417(	0.80)	,441(	5.60)	,442(	4.60)
	448(	0.00)	,466(	0.00)	,571(	0.40)	,593(	0.00)	,597(	0.20)	,618(	2.74)
	628(	1.50)	,650(	2.00)	,653(	1.20)	,696(	0.30)	,698(	3.20)	,711(	0.00)
	721(	0.00)	,722(	1.40)	,769(	1.20)	,785(	0.90)	,786(	1.60)	,794(	0.00)
	801(	0.90)	,816(	0.00)	,830(	2.10)	,840(	0.00)	,877(	2.80)	,881(	4.00)
	886(	0.60)	,888(	0.10)	,902(	0.24)	,951(	0.12)	,981(	1.60)	,1010(	0.54)
	1014(	0.14)	,1079(	6.00)	,1080(	0.39)	,1084(	0.40)	,1088(	0.32)	,1091(	4.80)
	1096(	2.50)	,1118(	0.80)	,1123(	1.00)	,1133(	0.90)	,1134(	2.10)	,1137(	0.10)
	1140(	0.00)	,1152(	0.80)	,1153(	0.32)	,1154(	1.95)	,1157(	0.90)	,1162(	0.02)
	1186(	0.50)	,1190(	0.40)	,1191(	0.08)	,1204(	0.52)	,1210(	0.20)		
Syacium papillosum	183(	0.00)	,286(	0.30)	,644(	0.30)	,736(	0.30)	,806(	0.80)	,807(	0.40)
	825(	1.44)	,950(	1.20)	,990(	0.70)	,1000(	0.40)	,1007(	0.00)	,1090(	2.40)
	1097(	1.30)	,1098(	0.60)	,1099(	0.58)	,1105(	3.50)	,1106(	3.00)	,1125(	2.00)
	1127(	1.12)	,1132(	1.00)	,1133(	0.20)	,1134(	1.80)	,1137(	0.12)	,1139(	0.50)
	1155(	3.24)	,1156(	0.02)	,1184(	6.40)	,1195(	0.60)	,1201(	0.08)	,1207(	6.00)
	1209(	0.20)										
Syacium gunteri	482(	4.20)	,485(	0.00)	,1116(	0.30)	,1153(	0.16)	,1154(	0.45)	,1158(	0.12)
	1161(	0.00)	,1178(	0.32)								
Scophthalmus aquosus	176(	0.10)										
Trichopsetta sp	176(	0.00)	,10(	3.00)	,150(	2.60)	,938(	0.00)				
Trichopsetta ventralis	200(	0.00)	,490(	0.00)	,510(	0.80)	,516(	1.20)	,548(	0.80)	,554(	0.40)
	577(	1.20)	,596(	0.00)	,597(	0.00)	,1129(	0.60)				

BRANIDAE

Brama caribbea	811(	1.20)		
Taractichthys longipinnis	1042(	2.20)		

BRANCHIOSTEGIDAE

Caulolatilus sp	187(	0.00)	,843(	0.00)								
Caulolatilus intermedius	10(	1.40)	,143(	1.40)	,144(	0.60)	,399(	2.00)	,410(	3.10)	,415(	2.20)
	458(	5.40)	,469(	0.00)	,470(	0.90)	,479(	4.40)	,492(	1.80)	,506(	1.40)
	529(	0.40)	,537(	0.60)	,784(	1.80)	,817(	8.40)	,818(	0.80)	,824(	5.20)
	831(	0.38)	,833(	0.72)	,866(	1.20)	,870(	0.60)	,871(	0.30)	,931(	0.40)
	1020(	2.20)	,1024(	0.40)	,1095(	0.40)	,1096(	1.00)	,1208(	0.32)		
Caulolatilus cyanops	106(	1.40)	,147(	7.20)	,157(	17.40)	,159(	7.10)	,179(	0.60)	,181(	1.80)
	184(	1.60)	,266(	2.40)	,374(	0.60)	,477(	9.60)	,479(	7.00)	,481(	14.40)
	482(	36.75)	,500(	0.60)	,501(	3.60)	,736(	0.60)	,769(	1.80)	,785(	8.60)
	786(	2.80)	,788(	9.80)	,801(	12.60)	,814(	0.60)	,815(	0.00)	,1079(	6.00)
	1106(	10.80)	,1113(	8.10)	,1114(	0.88)	,1116(	3.86)	,1118(	1.00)	,1121(	4.74)
	1123(	2.00)	,1125(	0.90)	,1127(	0.90)	,1132(	0.50)	,1152(	1.40)	,1155(	0.24)
	1195(	0.12)										
Caulolatilus guppyi	140(	2.00)	,207(	0.80)	,521(	0.80)	,1000(	0.40)	,1144(	3.20)	,1158(	0.40)
Caulolatilus chrysops	160(	1.52)	,478(	2.64)	,480(	22.40)	,499(	5.20)	,500(	3.96)	,764(	2.00)
	771(	2.00)	,776(	2.20)	,777(	1.96)	,788(	11.20)	,1115(	3.60)		
BREGMACEROTIDAE	256(	0.00)	,278(	0.00)	,295(	0.00)	,165(	0.04)				
Bregmaceros sp.	173(	0.80)	,207(	0.60)	,208(	0.00)	,228(	0.00)	,260(	0.00)	,742(	0.00)
	755(	0.00)	,766(	0.00)	,774(	0.16)	,780(	0.00)	,840(	0.00)	,841(	0.20)
	845(	0.00)	,858(	0.00)	,897(	0.72)	,1141(	0.00)	,1183(	0.00)		
Bregmaceros atlanticus	743(	0.00)	,1038(	0.00)								
BATHYCLUPEIDAE	810(	0.60)	,811(	1.50)	,1143(	0.03)	,1142(	9.00)				
Bathyclupea sp	1092(	2.10)	,1102(	0.15)	,1120(	1.65)	,1151(	2.10)				

BATHYPTEROIDAE

Bathypterois sp	682(	1.19)	, 683(	1.50)	, 684(	2.40)						
Bathypterois viridensis	924(	1.40)	, 980(	0.45)	, 1011(	0.40)	, 1012(	1.80)	, 1040(	0.90)	, 1041(	0.50)
	1044(	0.60)	, 1045(	0.40)	, 1142(	0.06)	, 391(	0.10)	, 418(	0.98)	, 800(	0.50)
	612(	1.10)										
Bathypterois quadrifiliis	1045(	0.20)	, 397(	0.60)	, 796(	0.00)	, 811(	1.80)				

CALLIONYMIDAE

Callionymus himantophorus	176(	0.10)	, 187(	0.00)	, 188(	0.00)						
Synchiropus agassizii	107(	0.00)	, 200(	0.00)	, 416(	0.00)	, 780(	0.00)	, 809(	0.60)	, 185(	0.04)
	510(	0.20)	, 810(	0.10)	, 393(	0.00)	, 808(	0.35)	, 1135(	0.08)	, 1162(	0.00)

CAPROIDAE

Antigonia capros	158(	1.72)	, 164(	0.40)	, 175(	0.00)	, 185(	0.20)	, 186(	0.60)	, 191(	11.20)
	192(	3.60)	, 199(	49.80)	, 217(	0.24)	, 222(	0.24)	, 394(	0.00)	, 477(	30.72)
	525(	0.95)	, 526(	0.30)	, 576(	17.40)	, 577(	0.00)	, 602(	0.00)	, 776(	8.20)
	777(	22.00)	, 826(	0.00)	, 1131(	0.40)	, 1135(	10.00)	, 1136(	3.73)	, 1155(	0.00)
Antigonia combata	6(	0.00)	, 7(	0.60)	, 114(	0.80)	, 188(	0.80)	, 189(	0.00)	, 192(	17.20)
	200(	0.27)	, 222(	0.00)	, 394(	0.00)	, 416(	1.20)	, 780(	19.50)	, 826(	0.15)
	878(	0.45)	, 1136(	27.73)	, 1194(	0.15)						

CARANGIDAE

Alectis ciliaris	135(	2.40)	, 197(	1.44)	, 223(	0.62)	, 234(	0.60)	, 244(	0.00)	, 246(	3.00)
	340(	0.00)	, 342(	4.40)	, 377(	0.10)	, 474(	1.60)	, 513(	1.00)	, 528(	4.60)
	570(	6.60)	, 607(	2.40)	, 614(	3.00)	, 722(	3.00)	, 723(	3.20)	, 733(	4.60)
	805(	3.60)	, 874(	12.00)	, 901(	0.60)	, 1027(	4.20)	, 1105(	3.60)	, 1133(	0.00)
	1179(	0.20)										
Caranx sp	40(	11.40)	, 212(	0.00)								
Caranx crysos	67(	2.60)	, 73(	3.76)	, 93(	8.00)	, 98(	3.60)	, 135(	1.60)	, 205(	2.40)
	223(	1.58)	, 287(	5.00)	, 288(	1.00)	, 293(	12.40)	, 350(	6.00)	, 351(	0.50)
	352(	3.80)	, 353(	4.00)	, 354(	8.00)	, 361(	0.60)	, 364(	8.00)	, 379(	12.00)
	381(	7.70)	, 384(	7.20)	, 425(	1.20)	, 461(	12.40)	, 531(	0.80)	, 587(	4.80)
	607(	1.00)	, 609(	0.80)	, 656(	20.00)	, 657(	7.20)	, 669(	0.60)	, 745(	4.60)
	783(	4.60)	, 805(	2.00)	, 828(	0.20)	, 863(	4.20)	, 884(	11.00)	, 900(	4.20)
	904(	0.70)	, 906(	1.20)	, 908(	2.80)	, 915(	1.40)	, 996(	0.00)	, 1050(	10.80)
	1187(	1.20)	, 1188(	2.00)								
Caranx hippos	47(	5.20)	, 87(	8.00)	, 92(	2.60)	, 95(	2.60)	, 103(	11.60)	, 205(	3.60)
	242(	10.90)	, 245(	0.80)	, 365(	0.30)	, 371(	16.80)	, 372(	0.80)	, 388(	4.00)
	405(	4.60)	, 406(	97.20)	, 461(	16.00)	, 466(	36.20)	, 538(	0.40)	, 542(	6.00)
	590(	5.50)	, 633(	6.80)	, 634(	77.00)	, 656(	0.40)	, 666(	6.60)	, 670(	7.60)
	671(	0.43)	, 708(	0.80)	, 849(	1.00)	, 853(	1.80)	, 941(	4.00)	, 974(	0.40)
	1005(	3.80)	, 1015(	12.40)	, 1018(	6.20)	, 1019(	2.60)	, 1022(	9.00)	, 1029(	2.00)
	1030(	1.70)	, 1031(	7.00)	, 1054(	3.00)	, 1059(	16.10)	, 1069(	3.00)	, 1161(	6.00)
	1169(	0.36)										
Caranx latus	521(	4.00)										
Caranx bartholomaei	275(	12.40)	, 901(	2.00)	, 900(	7.00)						
Chloroscombrus chrysurus	1(	32.00)	, 2(	2.30)	, 5(	1.00)	, 9(	2.80)	, 12(	97.80)	, 13(	33.60)
	17(	7.20)	, 22(	1.00)	, 23(	6.60)	, 25(	39.80)	, 28(	11.40)	, 30(	1.20)
	30(	2.20)	, 31(	2.20)	, 37(	4.00)	, 38(	0.00)	, 39(	0.00)	, 41(	140.40)
	42(	7.40)	, 44(	0.00)	, 45(	6.40)	, 47(	334.40)	, 48(	1.00)	, 49(	2.20)
	51(	2.13)	, 52(	48.00)	, 29(	0.00)	, 58(	14.00)	, 59(	10.40)	, 64(	28.20)
	65(	0.20)	, 67(	9.40)	, 71(	4.50)	, 50(	18.80)	, 72(	51.40)	, 73(	31.20)
	76(	0.00)	, 77(	1.60)	, 78(	13.40)	, 79(	0.00)	, 87(	1.40)	, 90(	0.80)
	95(	0.00)	, 96(	0.00)	, 102(	0.40)	, 103(	0.00)	, 104(	22.00)	, 112(	9.60)
	118(	3.60)	, 121(	0.40)	, 124(	5.20)	, 128(	0.50)	, 132(	1.53)	, 135(	69.60)
	142(	6.00)	, 167(	15.50)	, 169(	2.88)	, 172(	0.20)	, 174(	0.80)	, 196(	1.20)

2034	24.60	204	4.80	205	22.20	206	6.80	207	1.80	207	0.40
210	1.02	214	3.80	216	9.10	220	4.80	221	0.04	223	5.20
215	14.00	224	0.60	231	0.20	232	0.00	233	0.80	234	11.40
236	0.00	237	44.00	238	10.00	239	9.90	240	27.00	241	10.20
242	26.00	243	20.00	243	0.00	244	54.60	244	0.00	245	976.00
246	2.40	247	1.60	247	0.20	248	5.00	250	16.40	251	5.60
252	2.20	254	8.20	255	1.60	263	23.00	263	15.60	265	50.00
269	7.20	275	55.00	277	0.60	286	0.20	287	13.00	288	2.60
289	1.00	291	0.40	292	22.00	293	5.80	294	4.80	295	56.80
296	3.20	297	1.00	298	384.00	299	8.18	300	168.60	306	3.00
309	1.20	310	0.80	312	127.20	318	32.40	319	228.20	320	15.00
321	1.00	324	1.00	326	0.00	327	941.63	328	0.00	329	1.80
330	6.60	331	4.00	334	2.20	335	4.40	336	90.00	337	2.80
340	0.10	342	26.00	343	1.20	344	1.60	349	0.60	350	0.20
351	115.00	352	9.00	354	0.00	355	7.80	359	0.20	361	14.00
362	0.00	363	168.00	364	80.00	365	1.20	366	0.80	371	16.00
375	3.00	376	0.10	377	1.80	378	0.00	379	0.50	380	0.20
387	8.00	388	3.60	401	0.00	403	0.00	405	1.00	423	0.30
424	11.00	425	16.00	429	1.60	430	1.60	434	123.00	435	322.00
438	1.40	436	0.50	439	2.40	440	1.00	441	0.00	442	0.00
443	3.20	444	6.40	451	6.80	452	0.60	468	0.50	474	4.00
493	4.80	520	2.20	521	14.80	522	7.20	528	13.00	529	1.20
532	0.50	538	19.20	538	13.20	539	0.50	540	91.00	541	344.12
542	249.60	542	34.80	543	14.00	544	9.20	544	6.80	545	2.00
546	21.60	546	6.00	547	9.60	547	14.40	548	9.60	549	162.00
550	150.00	551	223.60	552	399.20	553	92.50	554	26.00	555	14.00
556	0.36	558	2.40	559	0.30	560	0.80	561	0.40	563	10.00
564	349.09	565	0.80	566	0.80	570	54.00	571	3.60	591	110.00
595	0.10	603	3.00	604	2.40	605	4.00	606	0.30	607	0.40
609	0.00	614	7.60	619	3.20	620	0.40	621	6.00	622	4.80
623	5.20	624	38.40	626	4.00	628	42.00	629	4.00	630	2.80
631	14.00	634	1.50	635	2.80	642	1.37	644	1.00	645	0.60
646	5.20	648	1.50	649	0.00	650	25.00	651	2.40	652	8.60
653	4.80	654	2.80	656	65.40	657	105.60	658	375.20	659	12.00
662	0.20	664	3.20	665	4.40	666	2.40	667	17.60	669	4.80
670	24.00	671	0.43	673	0.60	681	0.60	699	0.00	700	70.40
701	220.00	710	0.00	712	5.60	713	17.00	714	6.00	753	21.20
761	4.20	762	4.20	783	1.20	816	5.10	817	1.80	818	3.00
830	0.60	837	26.10	839	0.50	840	0.90	841	1.60	842	3.00
845	0.30	846	62.80	847	101.28	848	32.00	849	0.70	850	129.50
851	75.40	853	32.40	854	132.40	855	1.00	856	6.10	858	13.00
860	10.00	861	59.10	862	7.40	863	1.00	872	0.60	902	0.12
914	1.00	915	4.40	917	0.10	919	1.00	921	20.00	922	68.00
923	0.34	926	301.60	927	134.40	928	0.40	929	0.80	932	10.00
935	5.40	936	13.09	937	1.80	938	1.60	939	7.20	943	0.12
950	10.00	951	21.00	956	1.00	958	7.00	959	18.00	960	0.00
962	6.00	964	8.80	966	10.80	966	4.32	968	2.80	973	1.20
974	24.80	976	0.00	978	1.20	981	9.60	982	4.80	984	87.36
984	0.77	986	88.20	987	0.80	988	0.16	989	0.34	990	1.60
991	41.20	992	17.40	994	14.40	996	5.50	997	1.40	999	0.60
1001	100.00	1004	0.04	1008	0.40	1025	14.00	1028	1.85	1029	49.40
1030	3.90	1031	54.00	1034	12.00	1035	37.20	1037	4.00	1038	7.20
1039	8.00	1046	6.00	1047	0.24	1048	3.00	1049	1.44	1051	7.20
1050	9.60	1063	2.40	1067	0.70	1071	0.20	1072	0.90	1073	1.20
1091	1.20	1139	76.00	1140	27.33	1141	5.40	1145	21.88	1148	0.36
1149	74.40	1156	0.02	1157	0.60	1160	0.18	1161	27.00	1162	0.33
1163	13.60	1165	30.00	1166	53.10	1167	212.00	1168	0.20	1169	2.50

Chloroscombrus chrysurus (cont.)

1170 (41.20) , 1171 (0.90) , 1172 (24.00) , 1173 (0.05) , 1174 (6.00) , 1175 (3.84) ,
 1176 (7.44) , 1179 (37.40) , 1180 (2.00) , 1182 (0.26) , 1183 (4.80) , 1184 (40.00) ,
 1187 (105.00) , 1188 (6.00) , 1191 (20.16) , 1207 (20.80) , 1208 (57.60) , 1209 (0.20) ,

Decapterus sp

12 (75.60) , 40 (1.20) , 207 (0.00) , 232 (0.00) , 277 (1.20) , 1100 (4.08) ,

Decapterus punctatus

33 (0.00) , 34 (20.80) , 35 (8.00) , 37 (0.00) , 53 (4.70) , 54 (0.00) ,
 56 (237.60) , 57 (22.40) , 58 (643.80) , 65 (0.20) , 66 (45.40) , 72 (23.80) ,
 105 (2.88) , 110 (0.10) , 112 (1.20) , 135 (0.00) , 136 (6.00) , 147 (0.00) ,
 148 (0.00) , 154 (22.80) , 182 (377.40) , 187 (1.00) , 195 (1.00) , 196 (0.20) ,
 208 (0.00) , 257 (0.40) , 259 (6.00) , 264 (0.40) , 281 (0.00) , 283 (0.00) ,
 306 (5.00) , 312 (4.80) , 317 (2.40) , 318 (18.00) , 319 (0.70) , 321 (0.60) ,
 334 (213.40) , 336 (36.00) , 340 (0.00) , 341 (30.00) , 345 (2.60) , 348 (0.70) ,
 349 (0.20) , 362 (0.00) , 367 (0.00) , 382 (0.30) , 425 (0.20) , 472 (0.00) ,
 504 (0.40) , 513 (1.00) , 521 (8.00) , 522 (0.72) , 527 (0.00) , 531 (0.20) ,
 533 (0.00) , 563 (1.00) , 564 (10.91) , 569 (0.40) , 574 (9.00) , 582 (14.00) ,
 583 (56.00) , 606 (0.40) , 614 (0.00) , 619 (0.40) , 627 (2.00) , 628 (0.60) ,
 634 (3.00) , 644 (1.00) , 646 (42.60) , 647 (75.20) , 648 (0.90) , 652 (0.60) ,
 659 (12.00) , 662 (0.16) , 740 (4.00) , 741 (2.00) , 744 (0.20) , 748 (5.85) ,
 749 (0.00) , 762 (0.10) , 783 (0.60) , 785 (0.00) , 794 (3.00) , 795 (2.00) ,
 799 (25.20) , 797 (16.80) , 806 (0.50) , 836 (3.60) , 837 (0.00) , 841 (0.00) ,
 845 (0.30) , 865 (1.20) , 868 (0.00) , 874 (0.90) , 875 (10.40) , 876 (2.50) ,
 880 (0.60) , 884 (1.30) , 885 (0.00) , 886 (21.60) , 890 (0.00) , 891 (3.50) ,
 892 (0.30) , 894 (0.90) , 906 (1.20) , 914 (0.50) , 915 (0.00) , 917 (4.40) ,
 921 (0.14) , 926 (3.90) , 934 (3.20) , 936 (0.05) , 937 (0.60) , 938 (0.40) ,
 939 (1.20) , 949 (1.50) , 950 (0.80) , 951 (3.00) , 952 (4.90) , 957 (0.00) ,
 959 (0.84) , 960 (0.80) , 963 (4.00) , 973 (0.06) , 976 (0.04) , 976 (0.72) ,
 978 (6.00) , 979 (2.60) , 981 (1.20) , 983 (0.02) , 989 (0.04) , 1032 (1.10) ,
 1046 (0.40) , 1047 (16.80) , 1048 (0.02) , 1049 (0.72) , 1081 (20.00) , 1086 (8.40) ,
 1089 (7.20) , 1110 (0.29) , 1124 (24.00) , 1132 (0.02) , 1133 (0.70) , 1146 (1.00) ,
 1148 (0.28) , 1156 (0.02) , 1159 (0.24) , 1160 (0.18) , 1173 (0.05) , 1186 (0.30) ,
 1189 (0.20) , 1190 (6.30) , 1192 (0.40) , 1198 (84.00) , 1200 (0.36) , 1201 (5.90) ,
 1202 (0.84) , 1203 (7.50) , 1206 (17.98)

Decapterus tabi

8 (0.30) , 18 (0.00) , 22 (2.70) , 32 (6.00) , 109 (28.50) , 114 (0.30) ,
 127 (0.50) , 146 (3.00) , 147 (0.80) , 149 (0.00) , 157 (0.30) , 177 (0.10) ,
 179 (0.10) , 181 (0.00) , 182 (81.40) , 196 (0.00) , 201 (2.00) , 226 (0.00) ,
 264 (1.00) , 394 (1.80) , 417 (0.40) , 458 (1.20) , 479 (2.20) , 503 (0.60) ,
 504 (0.30) , 505 (2.40) , 517 (49.60) , 522 (0.24) , 584 (164.80) , 660 (0.20) ,
 698 (3.20) , 740 (3.00) , 741 (1.20) , 782 (0.30) , 792 (1.20) , 799 (0.00) ,
 880 (20.00) , 886 (0.60) , 891 (2.00) , 892 (0.40) , 897 (1.92) , 917 (0.10) ,
 1027 (2.00) , 1042 (0.40) , 1080 (0.52) , 1094 (2.00) , 1118 (1.20) , 1135 (2.00) ,

Decapterus macarellus

258 (1.60) , 264 (6.00) , 271 (9.60) , 272 (0.60) , 272 (1.60) , 276 (13.52) ,
 278 (0.00) , 282 (176.80) , 313 (2.00) , 315 (6.40) , 320 (16.00) , 323 (217.00) ,
 324 (0.50) , 423 (0.00) , 456 (2.40) , 469 (10.80) , 474 (4.40) , 475 (4.30) ,
 476 (0.00) , 505 (20.00) , 513 (2.00) , 519 (0.00) , 521 (3.60) , 522 (3.12) ,
 528 (0.10) , 530 (0.20) , 531 (0.60) , 532 (0.00) , 533 (0.40) , 549 (0.50) ,
 563 (1.50) , 564 (10.91) , 574 (4.20) , 575 (46.20) , 580 (10.29) , 581 (227.60) ,
 582 (88.00) , 583 (9.00) , 584 (33.60) , 586 (176.00) , 609 (0.00) , 630 (0.00) ,
 648 (1.60) , 661 (0.20) , 740 (4.00) , 741 (0.40) , 746 (0.00) , 799 (8.40) ,
 816 (0.00) , 841 (0.00) , 874 (0.44) , 875 (2.40) , 876 (8.00) , 880 (2.40) ,
 881 (2.00) , 884 (0.10) , 885 (0.00) , 886 (14.40) , 890 (0.30) , 891 (8.50) ,
 892 (0.60) , 894 (5.00) , 895 (1.00) , 897 (0.00) , 906 (0.60) , 914 (0.10) ,
 917 (0.20) , 938 (0.20) , 939 (0.40) , 950 (0.18) , 981 (0.80) , 1081 (10.00) ,
 1089 (4.80)

Elagatis bipinnulata

72 (10.00)

Hemicaranx sp

229 (0.00)

Hemicarax amblyrhynchus	5(1.60), 12(3.60), 13(7.20), 16(3.00), 20(19.20), 21(0.40),
	22(5.10), 25(19.40), 28(3.80), 37(1.00), 41(1.80), 42(2.00),
	45(9.00), 47(43.40), 48(12.00), 49(0.60), 51(4.27), 60(19.80),
	61(1.60), 59(23.20), 64(5.20), 67(22.60), 68(1.60), 69(1.00),
	71(23.40), 72(41.20), 73(5.40), 74(6.50), 76(0.10), 77(4.20),
	78(48.60), 85(4.40), 85(66.00), 86(12.00), 88(2.20), 99(0.00),
	104(3.20), 167(2.14), 167(0.00), 215(2.60), 237(1.80), 238(0.60),
	239(0.00), 292(0.40), 294(0.50), 304(44.00), 306(0.60), 309(16.40),
	311(12.00), 313(5.00), 314(6.00), 321(1.20), 322(46.80), 326(1.40),
	328(32.60), 329(6.60), 330(15.00), 337(37.00), 338(12.00), 342(0.40),
	343(42.00), 344(24.00), 345(64.00), 351(5.00), 352(17.60), 353(34.20),
	355(5.40), 356(5.60), 357(6.00), 359(0.00), 360(18.51), 361(0.60),
	362(0.80), 364(17.60), 369(0.80), 370(1.80), 371(4.00), 372(30.00),
	373(11.00), 374(0.40), 375(66.00), 378(4.80), 379(2.40), 388(1.20),
	405(1.60), 407(2.00), 439(4.80), 444(4.80), 493(3.43), 543(6.00),
	547(4.11), 614(1.60), 624(70.40), 630(0.30), 631(16.50), 638(2.40),
	640(6.40), 641(1.60), 643(2.00), 652(1.20), 653(2.60), 657(60.00),
	664(1.20), 665(4.40), 666(4.80), 667(4.00), 668(8.00), 669(0.40),
	670(6.80), 675(8.40), 678(3.30), 679(4.80), 691(9.00), 692(0.60),
	701(2.20), 714(10.50), 725(1.20), 732(0.00), 746(1.80), 860(5.00),
919(3.40), 921(36.00), 922(2.40), 929(145.60), 930(1.13), 932(2.00),	
941(5.60), 943(5.40), 944(6.00), 945(3.60), 947(1.40), 956(12.80),	
963(4.20), 964(2.80), 966(0.20), 967(6.00), 967(2.00), 968(8.40),	
969(13.50), 970(10.00), 971(3.00), 973(54.80), 974(3.40), 975(8.40),	
982(8.20), 984(8.08), 985(8.24), 986(3.00), 987(12.00), 989(2.20),	
990(0.56), 991(4.60), 992(3.80), 993(6.00), 994(3.00), 995(10.20),	
997(10.20), 998(1.80), 1001(2.00), 1004(8.00), 1034(2.00), 1051(0.18),	
1052(2.10)	
Oligoplites sp	291(0.20), 309(0.80), 961(3.60), 1054(8.80)
Oligoplites palometa	2(0.00), 13(10.00), 14(0.00), 386(30.00), 732(0.20), 847(1.80),
	851(12.10), 853(1.20)
Oligoplites saurus	25(7.80), 47(33.00), 51(1.07), 71(0.83), 103(4.60), 206(0.60),
	244(6.30), 292(0.40), 294(4.00), 402(2.00), 447(12.40), 447(0.60),
	452(2.60), 546(8.40), 708(5.40), 851(12.10), 968(0.70), 1029(1.80),
	1058(9.00), 1061(1.80), 1065(1.60), 1077(16.22), 1169(0.30)
Oligoplites saliens	43(0.40), 60(2.00), 59(1.80), 63(2.40), 93(2.00), 167(3.00),
	237(6.40), 243(2.00), 328(5.80), 343(1.20), 493(9.26), 637(8.00),
	638(62.00), 640(0.80), 669(1.20), 670(1.20), 680(5.40), 694(14.00),
	695(8.00), 701(9.40), 731(2.20), 733(2.00), 849(0.60), 928(5.20),
	941(11.60), 942(12.80), 943(4.60), 944(53.20), 945(6.90), 946(14.20),
	947(3.40), 949(0.40), 967(5.60), 984(8.77), 986(4.20), 993(3.60),
	999(3.00), 1002(16.80), 1003(26.60), 1005(17.20), 1005(12.50), 1015(4.20),
	1075(9.80), 1076(2.80)
Pseudocarax dentex	58(1.00), 234(3.90), 265(1.40)
Seiar crumenophthalmus	4(0.90), 9(22.00), 10(72.00), 12(19.20), 17(0.00), 18(14.57),
	20(13.40), 21(73.00), 22(0.60), 28(1.00), 30(2.40), 31(5.60),
	34(2.40), 35(126.40), 36(14.00), 45(3.00), 50(0.00), 53(0.20),
	56(77.40), 57(43.40), 58(37.60), 64(3.20), 66(5.20), 77(35.60),
	80(6.40), 94(1.20), 105(4.60), 112(4.80), 113(0.00), 128(0.52),
	144(3.20), 147(4.00), 149(0.00), 171(45.40), 172(5.80), 181(0.00),
	183(7.00), 196(9.80), 197(13.50), 198(0.90), 198(0.00), 203(5.40),
	204(1.60), 205(3.60), 206(1.60), 207(0.40), 215(0.58), 216(2.94),
	221(4.60), 224(0.80), 225(0.20), 228(0.50), 234(6.20), 254(0.30),
	255(0.00), 263(0.00), 264(0.00), 270(1.20), 271(6.40), 282(0.00),
	283(19.20), 272(16.00), 285(11.60), 286(1.00), 293(1.00), 297(0.30),
	299(8.18), 300(11.40), 301(25.40), 303(3.80), 304(0.60), 313(33.00),
	314(16.80), 315(148.00), 316(7.00), 317(16.80), 302(52.00), 323(17.00),
	324(0.40), 335(1.70), 336(48.00), 340(0.20), 341(0.40), 342(0.80),

Selar crumenophthalmus (cont.)

	344(	1.60)	, 345(	6.00)	, 346(	8.00)	, 347(	0.10)	, 348(	41.30)	, 349(	1.40)	,
	351(	7.50)	, 352(	0.40)	, 353(	9.00)	, 355(	6.60)	, 362(	0.20)	, 363(	0.20)	,
	364(	35.20)	, 366(	1.60)	, 367(	0.40)	, 374(	1.40)	, 376(	0.60)	, 377(	0.00)	,
	380(	2.00)	, 381(	0.20)	, 387(	6.00)	, 404(	0.00)	, 409(	123.09)	, 414(	4.80)	,
	415(	2.20)	, 423(	0.20)	, 424(	0.60)	, 425(	1.20)	, 430(	0.40)	, 469(	75.60)	,
	475(	7.17)	, 476(	0.10)	, 480(	0.00)	, 481(	76.80)	, 491(	11.40)	, 494(	0.90)	,
	495(	1.50)	, 496(	5.00)	, 499(	0.70)	, 514(	35.00)	, 515(	0.60)	, 522(	4.08)	,
	527(	2.80)	, 528(	1.60)	, 530(	2.20)	, 531(	6.80)	, 532(	0.00)	, 533(	19.60)	,
	533(	0.20)	, 535(	1.00)	, 536(	0.60)	, 537(	0.90)	, 550(	1.00)	, 556(	1.82)	,
	557(	1.60)	, 560(	0.00)	, 561(	38.60)	, 562(	2.00)	, 563(	1.50)	, 564(	2.18)	,
	565(	0.80)	, 575(	0.00)	, 580(	46.29)	, 583(	5.50)	, 587(	0.40)	, 590(	10.00)	,
	593(	0.80)	, 595(	3.60)	, 600(	135.10)	, 601(	0.71)	, 602(	1.40)	, 603(	0.00)	,
	605(	0.00)	, 606(	0.00)	, 609(	0.60)	, 611(	1.60)	, 614(	2.00)	, 617(	32.40)	,
	622(	0.20)	, 623(	1.80)	, 624(	3.20)	, 630(	0.00)	, 647(	182.40)	, 648(	0.40)	,
	649(	3.60)	, 650(	1.00)	, 651(	0.60)	, 652(	1.60)	, 658(	5.60)	, 659(	6.00)	,
	661(	0.00)	, 662(	0.40)	, 666(	0.60)	, 667(	1.00)	, 669(	0.60)	, 670(	0.80)	,
	672(	0.40)	, 679(	1.60)	, 681(	0.00)	, 692(	0.00)	, 712(	0.40)	, 737(	9.40)	,
	740(	7.00)	, 741(	3.60)	, 746(	0.60)	, 753(	0.30)	, 758(	0.20)	, 761(	1.50)	,
	766(	2.40)	, 781(	0.40)	, 784(	5.40)	, 793(	0.40)	, 803(	1.00)	, 806(	27.50)	,
	816(	0.60)	, 817(	4.80)	, 818(	0.00)	, 825(	0.00)	, 828(	1.30)	, 836(	4.95)	,
	837(	0.00)	, 840(	5.70)	, 841(	0.20)	, 846(	20.80)	, 855(	2.40)	, 863(	0.60)	,
	865(	0.20)	, 866(	2.00)	, 868(	0.80)	, 870(	0.40)	, 876(	44.00)	, 880(	3.00)	,
	881(	0.40)	, 882(	3.80)	, 885(	0.10)	, 886(	12.00)	, 887(	3.00)	, 896(	10.00)	,
	905(	0.30)	, 906(	2.60)	, 914(	0.50)	, 915(	1.20)	, 921(	0.60)	, 922(	0.12)	,
	930(	5.01)	, 935(	4.80)	, 952(	4.20)	, 959(	1.08)	, 973(	0.08)	, 976(	1.40)	,
	978(	2.80)	, 979(	6.50)	, 984(	0.20)	, 988(	2.60)	, 989(	4.40)	, 991(	5.20)	,
	992(	1.60)	, 997(	1.40)	, 1028(	12.46)	, 1032(	5.00)	, 1046(	3.40)	, 1048(	0.10)	,
	1050(	1.20)	, 1081(	4.80)	, 1096(	1.70)	, 1097(	0.10)	, 1099(	1.44)	, 1100(	0.96)	,
	1109(	0.40)	, 1112(	7.50)	, 1113(	3.64)	, 1115(	20.00)	, 1128(	4.00)	, 1132(	0.08)	,
	1133(	1.20)	, 1134(	0.00)	, 1137(	0.50)	, 1139(	11.00)	, 1140(	1.33)	, 1144(	31.50)	,
	1145(	4.24)	, 1153(	0.40)	, 1154(	0.45)	, 1156(	3.40)	, 1157(	2.30)	, 1161(	0.20)	,
	1163(	0.08)	, 1176(	0.24)	, 1198(	0.00)	, 1208(	1.60)					
Seriola sp	280(	0.12)	, 1079(	2.20)									
Seriola rivotiana	477(	6.00)	, 512(	6.25)	, 513(	1.60)	, 517(	32.00)	, 518(	7.60)	, 519(	3.60)	,
	521(	8.80)	, 523(	60.86)	, 528(	5.20)	, 530(	36.00)	, 533(	12.40)	, 586(	2.60)	,
	589(	8.80)	, 593(	0.60)	, 596(	2.20)	, 598(	12.00)	, 599(	1.00)	, 600(	1.74)	,
	744(	0.20)	, 776(	2.10)	, 778(	5.00)	, 779(	1.00)	, 801(	89.40)	, 805(	3.80)	,
	813(	46.80)	, 830(	2.40)	, 877(	1.30)	, 883(	0.90)	, 885(	1.00)	, 886(	3.30)	,
	893(	17.40)	, 1121(	1.89)	, 1124(	18.00)	, 1126(	69.20)	, 1127(	9.20)	, 1131(	66.20)	,
	1138(	0.90)	, 1139(	0.30)	, 1150(	0.25)	, 1154(	10.20)	, 1157(	0.70)	, 1197(	25.00)	,
	1206(	1.40)											
Seriola fasciata	54(	1.40)	, 283(	3.80)	, 1137(	1.00)	, 1138(	1.20)	, 1157(	0.98)			
Seriola dumerili	158(	16.00)	, 159(	13.40)	, 176(	0.40)	, 182(	5.20)	, 197(	7.20)	, 836(	43.50)	,
	874(	1.60)	, 894(	0.60)	, 1146(	14.30)	, 1199(	6.00)					
Seriola zonata	471(	8.00)	, 1204(	1.80)	, 1206(	1.60)							
Selene sp	15(	0.00)	, 22(	0.00)	, 38(	0.00)	, 44(	0.00)	, 81(	0.00)	, 95(	0.00)	,
	98(	5.60)	, 101(	0.00)	, 166(	0.00)	, 167(	1.00)	, 210(	0.00)	, 220(	0.00)	,
	221(	0.00)	, 229(	0.00)	, 231(	0.00)	, 232(	0.00)	, 237(	0.00)	, 242(	6.00)	,
	244(	0.00)	, 250(	0.00)	, 251(	0.00)	, 261(	0.00)	, 263(	0.00)	, 269(	7.20)	,
	305(	0.10)	, 476(	0.00)									
Selene vomer	2(	0.00)	, 3(	47.50)	, 26(	14.00)	, 58(	4.60)	, 173(	2.20)	, 174(	0.00)	,
	203(	18.00)	, 204(	4.30)	, 210(	7.10)	, 220(	3.40)	, 221(	1.10)	, 234(	4.40)	,
	246(	2.00)	, 247(	29.40)	, 272(	25.40)	, 274(	1.90)	, 275(	20.00)	, 285(	6.00)	,
	289(	1.40)	, 293(	0.60)	, 294(	0.08)	, 298(	0.24)	, 299(	0.00)	, 307(	0.00)	,
	327(	6.56)	, 350(	1.40)	, 354(	0.00)	, 355(	0.00)	, 357(	0.00)	, 405(	2.20)	,
	461(	3.00)	, 493(	10.29)	, 527(	5.60)	, 529(	3.60)	, 531(	3.20)	, 542(	4.80)	,
	566(	2.00)	, 623(	9.60)	, 635(	1.40)	, 666(	3.00)	, 670(	1.00)	, 707(	3.20)	,

Selene vomer (cont.)

708(4.80) , 722(0.60) , 762(9.50) , 817(4.80) , 825(3.60) , 837(27.00) ,
 846(0.00) , 848(0.20) , 862(8.40) , 863(4.60) , 872(11.20) , 940(4.00) ,
 941(14.00) , 941(0.70) , 942(2.40) , 944(0.40) , 947(1.20) , 967(0.80) ,
 968(1.40) , 974(4.20) , 975(0.00) , 993(8.24) , 1034(1.90) , 1049(2.40) ,
 1058(6.20) , 1064(0.06) , 1128(16.40) , 1133(11.00) , 1145(4.24) , 1149(6.00) ,
 1156(22.00) , 1179(0.40) , 1184(59.20) , 1208(48.00) , 216(22.00)

Selene setapinnis

5(0.80) , 30(1051.20) , 60(4.40) , 61(3.60) , 59(11.60) , 92(53.60) ,
 93(36.40) , 96(14.20) , 100(2.29) , 103(28.60) , 104(39.60) , 110(0.20) ,
 112(4.80) , 113(16.60) , 118(9.00) , 125(29.20) , 138(2.00) , 148(3.00) ,
 174(10.40) , 196(3.20) , 203(12.00) , 205(45.00) , 214(11.20) , 215(11.60) ,
 216(29.20) , 220(1.40) , 221(0.40) , 263(1.20) , 272(52.00) , 272(3.60) ,
 289(0.00) , 292(0.20) , 293(1.00) , 297(0.08) , 298(0.24) , 303(14.00) ,
 307(0.00) , 308(12.50) , 309(11.20) , 309(0.80) , 336(6.00) , 343(2.40) ,
 353(22.60) , 354(3.40) , 357(8.00) , 359(0.00) , 360(15.43) , 361(3.60) ,
 365(0.00) , 366(4.00) , 372(13.20) , 373(1.20) , 376(33.60) , 377(0.00) ,
 378(0.00) , 379(0.80) , 380(0.80) , 387(7.00) , 388(48.00) , 401(0.00) ,
 402(18.00) , 404(434.00) , 405(5.40) , 405(0.00) , 406(66.80) , 406(0.00) ,
 409(581.64) , 430(1.60) , 435(55.20) , 559(0.60) , 701(1.00) , 919(0.40) ,
 922(2.40) , 927(16.00) , 928(1.20) , 929(136.80) , 931(0.20) , 940(97.20) ,
 941(26.60) , 942(3.40) , 968(4.20) , 969(0.80) , 974(1.40) , 975(7.20) ,
 984(1.15) , 994(57.60) , 995(0.90) , 996(13.00) , 997(0.20) , 998(18.60) ,
 998(0.90) , 999(8.40) , 1000(4.00) , 1002(1.40) , 1003(148.80) , 1004(29.80) ,
 1005(10.00) , 1005(0.00) , 1007(2.80) , 1008(0.56) , 1019(5.40) , 1020(220.00) ,
 1021(11.40) , 1023(3.90) , 1024(7.20) , 1025(30.00) , 1027(19.00) , 1028(57.69) ,
 1029(494.00) , 1030(93.60) , 1031(69.00) , 1034(147.20) , 1035(50.50) , 1038(8.40) ,
 1046(0.80) , 1048(0.04) , 1051(1.20) , 1052(28.00) , 1050(12.00) , 1055(1.28) ,
 1056(1.60) , 1059(5.00) , 1064(0.04) , 1067(18.90) , 1068(3.60) , 1068(1.92) ,
 1071(0.12) , 1075(1.00) , 1091(0.40) , 1096(1.80) , 1104(4.20) , 1107(2.20) ,
 1133(0.10) , 1140(4.67) , 1145(33.88) , 1148(10.50) , 1149(0.36) , 1191(0.72) ,

Selene spixii

8(2.20) , 9(1.60) , 12(24.00) , 13(10.00) , 18(2.71) , 27(1.80) ,
 39(56.00) , 41(6.00) , 47(0.00) , 50(11.20) , 51(1.07) , 52(7.00) ,
 29(0.00) , 64(11.00) , 71(3.60) , 72(0.00) , 73(0.20) , 77(1.60) ,
 78(21.60) , 78(0.00) , 87(0.00) , 210(6.30) , 287(2.40) , 291(0.00) ,
 294(0.00) , 295(1.20) , 415(259.20) , 427(0.60) , 434(82.00) , 440(1.00) ,
 442(0.90) , 443(12.80) , 444(11.20) , 447(3.40) , 447(2.00) , 451(1.40) ,
 452(1.60) , 455(90.00) , 468(0.30) , 470(26.60) , 485(104.00) , 492(2.24) ,
 520(4.40) , 521(4.00) , 522(10.08) , 527(64.00) , 528(6.00) , 529(2.60) ,
 538(1.20) , 540(4.20) , 541(8.03) , 544(0.00) , 545(3.00) , 546(0.60) ,
 548(1.60) , 549(1.00) , 550(3.00) , 551(0.40) , 553(35.00) , 555(5.60) ,
 559(2.20) , 560(0.20) , 561(0.10) , 566(14.60) , 570(20.00) , 571(2.00) ,
 572(135.00) , 590(23.00) , 602(0.10) , 603(0.00) , 604(0.10) , 607(2.40) ,
 608(0.23) , 609(1.00) , 614(25.00) , 618(9.60) , 621(0.20) , 623(3.20) ,
 624(32.00) , 625(39.60) , 626(4.00) , 635(8.40) , 640(0.80) , 654(1.40) ,
 655(60.00) , 658(1.40) , 664(2.00) , 665(17.60) , 666(18.60) , 667(1.40) ,
 668(2.40) , 669(16.00) , 670(6.00) , 671(3.21) , 673(0.60) , 675(65.80) ,
 679(8.40) , 680(5.40) , 687(0.40) , 691(3.00) , 692(2.00) , 694(10.40) ,
 695(8.80) , 700(28.80) , 701(30.24) , 705(11.20) , 711(5.00) , 712(4.80) ,
 713(8.00) , 714(7.50) , 734(2.60) , 746(5.40) , 761(0.20) , 774(1.00) ,
 783(1.00) , 817(2.40) , 824(0.60) , 828(1.00) , 846(55.20) , 847(0.36) ,
 848(0.20) , 851(2.20) , 860(1.50) , 861(21.30) , 872(51.00) , 896(0.50) ,
 897(12.24) , 902(0.24) , 914(1.40) , 915(0.30) , 923(187.00) , 926(5.20) ,
 932(0.00) , 945(1.50) , 961(10.80) , 966(0.50) , 1009(4.70) , 1015(108.80) ,
 1017(8.40) , 1055(0.00) , 1128(13.00) , 1187(33.00)

Irachinotus cayennensis

12(4.80) , 15(5.80) , 29(86.40) , 92(4.60) , 95(3.30) , 96(4.00) ,
 322(2.40) , 325(5.00) , 326(0.60) , 371(4.00) , 387(10.00) , 388(8.80) ,
 389(1.00) , 406(19.80) , 409(22.91) , 415(7.10) , 437(6.00) , 451(22.00) ,

Trachinotus cayennensis (cont.)

538(1.00), 626(108.00), 667(2.80), 705(17.60), 706(2.60), 708(1.40),
 725(7.00), 754(2.40), 961(3.00), 961(31.80), 962(2.25), 968(4.80),
 974(1.00), 992(1.00), 993(3.20), 997(0.80), 998(0.60), 999(13.40),
 1001(0.80), 1020(15.10), 1025(4.40), 1027(2.60), 1029(9.80), 1031(7.00),
 1035(14.80), 1046(1.80), 1055(0.50), 1059(6.50), 1060(1.40)

Trachinotus carolinus

74(1.00), 95(2.20), 132(1.53), 134(2.24), 142(4.50), 167(1.20),
 205(2.80), 215(3.20), 233(2.20), 234(2.40), 301(0.40), 357(10.00),
 464(1.50), 549(1.20), 624(9.60), 632(2.20), 699(23.40), 720(16.00),
 754(2.40), 756(12.34), 848(2.80), 921(0.26), 922(2.40), 927(3.20),
 928(1.00), 947(9.80), 948(2.20), 948(18.20), 949(2.80), 970(5.26),
 996(7.00), 1005(1.80), 1015(6.80), 1016(3.69), 1019(2.60), 1029(2.00),
 1065(0.30), 1107(5.60)

Trachinotus falcatus

246(9.80), 531(6.00), 1005(3.40), 1167(10.00)

Trachinotus goodei

1035(2.00)

Trachurus lathami

110(6.20), 9(4.20), 10(86.80), 18(8.57), 20(4.40), 21(4.40),
 22(1.20), 23(0.00), 31(0.00), 32(20.00), 33(35.60), 34(211.20),
 35(64.80), 36(10.80), 40(0.40), 57(53.40), 58(178.60), 72(1.00),
 73(0.60), 81(0.00), 104(10.40), 109(123.00), 122(400.00), 123(37.44),
 124(0.00), 125(1.20), 130(1.20), 131(38.40), 132(2.73), 135(4.80),
 137(3.20), 138(0.00), 140(32.50), 141(11.20), 142(8.50), 143(153.00),
 144(105.60), 147(137.20), 148(2.60), 148(10.80), 151(137.40), 152(2.60),
 154(7.20), 157(15.60), 160(193.50), 161(0.12), 165(3.00), 166(1.80),
 166(42.00), 170(8.20), 171(5.80), 172(1.20), 173(0.00), 174(0.00),
 183(665.00), 184(16.80), 195(16.00), 197(130.50), 200(0.60), 203(0.40),
 207(0.60), 208(1.20), 214(20.00), 216(0.00), 221(0.00), 224(0.40),
 226(7.32), 227(21.60), 229(5.00), 231(3.40), 232(1.60), 254(0.00),
 256(9.90), 257(0.80), 258(19.20), 259(3.00), 264(0.00), 266(2.40),
 267(4.20), 268(4.20), 271(60.80), 274(16.00), 275(44.00), 276(13.52),
 277(1.20), 279(12.00), 280(9.60), 281(0.00), 301(31.00), 303(2.00),
 304(0.00), 313(106.00), 314(0.12), 315(40.00), 316(23.80), 317(480.00),
 319(7.00), 302(160.00), 346(0.20), 348(8.40), 364(4.80), 367(0.00),
 374(4.80), 382(0.30), 384(0.80), 385(1.20), 394(3.20), 400(2.40),
 408(450.00), 409(70.36), 412(25.20), 414(1.40), 430(2.00), 458(196.80),
 460(15.00), 461(0.80), 462(1.20), 463(0.43), 464(26.00), 466(8.00),
 468(0.00), 469(756.00), 471(709.50), 472(4.50), 473(9.00), 474(13.20),
 476(0.00), 479(138.60), 480(347.20), 481(52.80), 482(8.40), 483(104.00),
 484(143.00), 485(81.20), 486(54.40), 488(7.92), 490(28.80), 491(38.00),
 492(3.00), 494(0.74), 495(12.00), 496(30.00), 498(0.41), 499(184.80),
 501(274.80), 502(83.31), 505(80.00), 510(10.00), 511(1.20), 513(21.00),
 514(0.80), 515(0.24), 516(16.80), 518(0.70), 519(2.80), 521(0.40),
 522(7.20), 528(1.60), 530(17.00), 532(0.50), 535(0.20), 536(5.70),
 537(6.90), 551(1.00), 553(0.00), 554(122.20), 555(182.00), 557(11.60),
 560(0.40), 561(1.40), 562(100.00), 563(7.50), 564(10.91), 567(15.00),
 569(16.00), 571(48.00), 572(36.00), 575(14.00), 580(0.51), 592(0.20),
 611(5.80), 617(3.60), 647(11.20), 661(0.30), 678(0.45), 696(3.80),
 735(0.20), 736(0.80), 737(16.00), 738(28.00), 750(64.00), 754(51.00),
 757(1.60), 759(0.30), 763(21.00), 764(28.60), 765(1540.00), 769(169.00),
 771(0.74), 772(7.60), 773(17.10), 775(0.50), 781(13.30), 782(0.00),
 783(1.30), 784(42.60), 785(4.00), 787(64.90), 788(22.40), 792(126.00),
 793(3.00), 794(4.50), 803(0.40), 805(0.30), 806(25.00), 808(14.00),
 814(0.60), 815(0.80), 818(1.40), 824(8.00), 831(3.50), 833(2.88),
 834(8.00), 835(0.40), 836(13.50), 837(4.20), 839(4.40), 840(6.30),
 841(0.00), 842(5.10), 843(3.70), 845(0.30), 858(0.88), 862(0.00),
 864(0.40), 865(6.60), 866(3.00), 867(0.00), 870(11.20), 871(8.70),
 872(1.20), 873(145.80), 874(234.00), 876(8.00), 877(2.80), 886(0.00),
 887(21.00), 890(0.00), 891(0.00), 923(14.00), 926(0.00), 930(122.06),
 931(24.00), 932(8.40), 933(0.30), 934(579.20), 935(0.20), 951(3.30),

Clupeids juveniles	4 (18.00)								
Chirocentron bleekermanus	16 (0.20)	, 27 (50.80)	, 37 (1.00)	, 41 (0.60)	, 42 (35.40)	, 45 (18.00)			
	47 (13.80)	, 49 (3.00)	, 51 (4.27)	, 52 (23.00)	, 59 (16.00)	, 71 (0.90)			
	60 (28.00)	, 78 (86.40)	, 79 (0.00)	, 83 (28.80)	, 87 (8.00)	, 88 (15.20)			
	89 (3.00)	, 90 (30.40)	, 91 (22.00)	, 94 (34.80)	, 98 (16.80)	, 101 (25.71)			
	102 (2.00)	, 103 (103.20)	, 104 (12.80)	, 112 (0.00)	, 118 (20.80)	, 121 (8.00)			
	124 (109.20)	, 128 (0.00)	, 130 (0.00)	, 131 (64.80)	, 133 (5.60)	, 134 (5.00)			
	153 (102.40)	, 154 (4.00)	, 165 (0.00)	, 166 (16.00)	, 167 (18.00)	, 173 (4.80)			
	174 (26.40)	, 206 (19.20)	, 210 (3.84)	, 220 (2.40)	, 228 (4.00)	, 239 (0.00)			
	240 (11.40)	, 241 (2.00)	, 243 (3.20)	, 244 (43.68)	, 250 (12.80)	, 251 (6.00)			
	260 (8.00)	, 261 (3.60)	, 262 (3.20)	, 263 (1.50)	, 269 (13.20)	, 272 (25.60)			
	286 (0.20)	, 287 (7.80)	, 289 (2.40)	, 291 (6.00)	, 292 (2.40)	, 294 (0.80)			
	295 (0.04)	, 307 (115.20)	, 309 (0.60)	, 311 (44.80)	, 322 (183.40)	, 329 (58.80)			
	338 (0.00)	, 354 (56.00)	, 357 (24.00)	, 360 (4.63)	, 365 (5.00)	, 366 (30.80)			
	378 (4.00)	, 388 (10.40)	, 404 (725.40)	, 405 (0.00)	, 406 (34.00)	, 407 (0.00)			
	415 (573.80)	, 427 (18.60)	, 429 (1.60)	, 432 (11.00)	, 433 (41.60)	, 434 (992.20)			
	435 (64.40)	, 437 (2.00)	, 438 (50.40)	, 436 (7.50)	, 439 (48.00)	, 441 (24.00)			
	442 (18.00)	, 443 (11.20)	, 444 (24.00)	, 446 (14.00)	, 447 (6.00)	, 451 (0.40)			
	452 (3.00)	, 455 (0.30)	, 466 (12.80)	, 476 (0.60)	, 486 (5.60)	, 488 (0.72)			
	527 (153.60)	, 538 (181.20)	, 539 (7.80)	, 540 (23.80)	, 543 (4.00)	, 544 (10.80)			
	545 (26.60)	, 546 (48.00)	, 547 (50.06)	, 558 (3.60)	, 559 (23.20)	, 566 (2.00)			
	624 (124.80)	, 625 (18.00)	, 632 (180.00)	, 633 (96.00)	, 635 (152.60)	, 642 (21.26)			
	655 (72.00)	, 665 (4.40)	, 666 (68.40)	, 668 (5.60)	, 676 (16.80)	, 687 (10.80)			
	690 (0.30)	, 691 (18.00)	, 694 (2.80)	, 701 (74.80)	, 705 (39.20)	, 706 (74.20)			
	707 (81.60)	, 708 (85.60)	, 709 (4.20)	, 711 (1.60)	, 714 (4.50)	, 715 (44.00)			
	716 (33.40)	, 719 (21.00)	, 720 (23.20)	, 721 (21.00)	, 722 (2.00)	, 724 (5.80)			
	725 (6.40)	, 726 (1.60)	, 728 (0.40)	, 729 (48.00)	, 730 (1.00)	, 731 (0.10)			
	733 (2.40)	, 738 (0.00)	, 758 (4.20)	, 767 (5.66)	, 843 (7.40)	, 846 (104.40)			
	847 (7.68)	, 849 (23.00)	, 851 (91.40)	, 853 (7.80)	, 856 (4.70)	, 859 (165.60)			
	860 (120.00)	, 861 (81.60)	, 872 (94.80)	, 919 (9.60)	, 920 (1440.00)	, 928 (644.00)			
	940 (437.20)	, 941 (0.00)	, 944 (6.60)	, 946 (27.20)	, 947 (29.20)	, 960 (4.80)			
	961 (5.04)	, 964 (0.00)	, 968 (7.00)	, 969 (49.10)	, 993 (7.50)	, 994 (9.60)			
	996 (8.00)	, 998 (30.00)	, 999 (0.00)	, 1003 (2.40)	, 1005 (8.52)	, 1017 (47.20)			
	1018 (3.20)	, 1019 (28.80)	, 1020 (46.00)	, 1021 (10.50)	, 1022 (24.00)	, 1025 (16.00)			
	1026 (9.00)	, 1027 (48.00)	, 1029 (206.50)	, 1031 (21.00)	, 1038 (16.20)	, 1051 (4.80)			
	1052 (1.80)	, 1053 (2.40)	, 1055 (48.00)	, 1056 (48.40)	, 1057 (31.22)	, 1058 (23.80)			
	1059 (75.00)	, 1060 (2.00)	, 1061 (57.60)	, 1062 (97.20)	, 1063 (42.40)	, 1064 (0.34)			
	1065 (0.96)	, 1067 (101.00)	, 1068 (35.20)	, 1069 (1.28)	, 1071 (24.00)	, 1072 (12.80)			
	1073 (21.60)	, 1074 (4.20)	, 1075 (1.80)	, 1076 (2.40)	, 1077 (112.00)	, 1082 (0.12)			
	1083 (0.00)	, 1084 (0.20)	, 1108 (0.80)	, 1140 (2.00)	, 1166 (4.80)	, 1169 (2.40)			
	1170 (0.00)	, 1179 (2.00)	, 1182 (134.82)						
Etrumeus teres	34 (0.00)	, 80 (0.10)	, 106 (0.20)	, 137 (810.00)	, 141 (1.00)	, 153 (22.40)			
	165 (0.00)	, 184 (0.00)	, 206 (0.00)	, 216 (0.56)	, 224 (21.60)	, 227 (0.72)			
	228 (0.00)	, 231 (0.20)	, 235 (978.40)	, 252 (0.00)	, 254 (0.20)	, 257 (2.40)			
	267 (0.00)	, 270 (0.00)	, 271 (0.32)	, 278 (1.03)	, 280 (48.00)	, 414 (2.00)			
	415 (1.00)	, 455 (0.60)	, 461 (26.40)	, 462 (1.40)	, 468 (0.00)	, 469 (24.30)			
	470 (1467.40)	, 473 (291.60)	, 475 (60.26)	, 476 (1.00)	, 482 (0.00)	, 488 (0.72)			
	489 (29.80)	, 499 (0.00)	, 521 (0.00)	, 527 (0.00)	, 535 (0.50)	, 536 (2.10)			
	537 (0.44)	, 556 (0.27)	, 561 (0.20)	, 562 (1.00)	, 563 (1.74)	, 567 (1.50)			
	571 (0.80)	, 601 (0.00)	, 611 (0.20)	, 735 (7.40)	, 754 (0.20)	, 758 (0.00)			
	759 (58.80)	, 760 (60.40)	, 773 (0.90)	, 775 (60.40)	, 781 (0.30)	, 782 (1.80)			
	784 (0.00)	, 787 (66.00)	, 831 (0.78)	, 832 (121.50)	, 833 (22.00)	, 834 (8.00)			
	840 (0.30)	, 867 (0.00)	, 870 (0.10)	, 874 (0.44)	, 875 (5.60)	, 876 (0.20)			
	880 (0.10)	, 886 (0.30)	, 887 (0.20)	, 891 (13.50)	, 892 (0.60)	, 1033 (0.04)			
	1046 (0.04)	, 1078 (39.00)	, 1128 (0.64)	, 1177 (0.02)					
Harengula sp	79 (0.00)	, 96 (2.40)	, 263 (26.40)	, 307 (64.80)	, 484 (13.00)	, 1084 (1.00)			
	1128 (2.24)								
Harengula jaguana	25 (2.40)	, 43 (2.40)	, 44 (18.00)	, 45 (3.00)	, 46 (3.20)	, 47 (0.00)			

Harenguia jaguana (cont.)

51(3.20), 52(0.00), 60(11.20), 61(19.80), 59(77.00), 63(1.80),
68(1.20), 69(3.90), 70(22.40), 62(9.60), 75(2.40), 76(0.40),
78(237.60), 83(0.00), 84(0.00), 94(0.00), 95(14.40), 98(28.00),
101(214.29), 102(48.00), 103(0.00), 105(4.88), 121(6.40), 129(340.00),
130(84.60), 131(391.20), 132(1.07), 133(310.80), 134(865.00), 142(10.00),
167(18.00), 206(0.64), 212(0.00), 237(0.10), 240(0.60), 241(2.00),
250(3.20), 257(4.80), 261(0.36), 291(0.00), 293(1.00), 294(8.00),
295(0.00), 309(4.40), 310(0.00), 311(33.60), 322(405.60), 328(1.60),
329(0.30), 338(2.40), 343(0.00), 351(15.00), 352(1.60), 353(45.00),
355(0.00), 356(56.00), 357(100.00), 358(0.46), 359(0.00), 360(18.51),
365(8.40), 369(30.40), 370(32.40), 371(18.40), 375(3.00), 378(51.20),
386(2.60), 402(1.00), 404(229.40), 405(9.10), 406(0.00), 407(1.00),
428(7.20), 434(5.40), 435(0.00), 436(1.00), 439(3.20), 445(0.00),
447(0.60), 451(2.80), 452(11.40), 541(9.18), 543(8.00), 609(0.60),
611(0.20), 624(105.60), 625(0.00), 633(1.60), 638(2.80), 639(14.00),
640(36.80), 641(3.00), 655(90.00), 656(0.00), 664(0.20), 668(78.40),
673(0.90), 675(37.80), 679(13.20), 690(5.00), 691(0.00), 692(0.80),
693(0.90), 694(6.50), 695(0.00), 699(16.40), 700(19.20), 705(2.80),
706(2.80), 707(2.40), 708(2.40), 715(7.00), 716(6.00), 719(0.00),
731(0.30), 733(0.00), 737(2.40), 738(1.80), 739(196.50), 747(6.50),
750(2.00), 752(54.00), 754(0.00), 756(11.66), 757(2.40), 758(0.30),
759(0.00), 774(3.10), 849(2.16), 851(45.60), 853(0.00), 944(59.20),
945(0.14), 946(7.20), 947(12.00), 965(1.70), 967(0.40), 975(20.40),
985(5.94), 986(0.18), 987(3.50), 993(3.74), 994(0.60), 995(10.80),
998(4.32), 999(13.20), 1002(28.00), 1003(20.80), 1005(55.38), 1006(8.40),
1007(0.06), 1015(8.50), 1017(104.80), 1018(10.72), 1019(3.00), 1022(0.60),
1030(88.40), 1031(0.50), 1032(25.60), 1036(0.70), 1051(33.60), 1053(0.30),
1050(16.80), 1054(44.20), 1055(0.64), 1057(0.44), 1058(0.00), 1061(14.08),
1063(0.00), 1067(10.80), 1068(6.40), 1069(1.60), 1070(0.00), 1073(0.00),
1074(2.60), 1076(0.12), 1077(92.00), 1078(2.60), 1082(22.80), 1083(1.20),
1085(0.78), 1088(32.40), 1108(0.10), 1109(0.06), 1112(2.00), 1134(0.00),
1140(5.67), 15(4.20), 16(0.20), 71(5.40), 87(10.00), 88(0.00),
464(34.50), 538(9.60), 539(1.00), 540(5.60), 544(2.00), 566(5.00),
941(4.90), 961(5.04), 968(0.42), 971(1.80), 972(0.20)
<i>Udontognathus mucronatus</i> 1(36.80), 2(2.00), 15(11.40), 38(38.40), 43(0.00), 46(6.40),
61(3.60), 70(0.08), 62(0.00), 76(0.00), 85(6.60), 86(24.00),
294(5.60), 310(6.40), 328(1.60), 343(1.20), 354(4.00), 369(3.20),
386(5.00), 402(37.00), 405(0.00), 638(12.00), 639(15.40), 640(11.20),
641(1.00), 700(35.20), 941(54.60), 946(1.70), 948(70.20), 961(5.76),
965(8.70), 967(30.00), 971(9.40), 975(14.56), 985(12.40), 987(21.00),
995(1.80), 1002(116.40), 1003(17.92), 1005(93.72), 1006(7.10), 1015(66.80),
1018(1.60), 1037(26.00), 1039(19.20), 1054(1.50)
<i>Udontognathus compressus</i> 25(7.00), 39(56.00), 29(475.20), 242(48.00), 243(0.00), 261(0.00),
286(0.00), 292(0.80)
<i>Upisthonema oglinum</i> 1(0.00), 2(0.10), 5(2.00), 12(3.00), 13(0.40), 23(1258.40),
24(0.90), 25(3.80), 27(203.00), 28(0.60), 30(33.60), 37(107.00),
39(104.00), 41(0.60), 42(2.10), 42(0.20), 43(103.20), 44(0.00),
45(4.40), 46(25.60), 47(39.00), 49(1.60), 50(0.10), 52(3.00),
60(1.60), 61(1.60), 29(10.80), 59(2.00), 63(1.60), 64(1.20),
67(18.60), 71(5.55), 72(62.00), 73(2.20), 91(0.00), 93(4.20),
93(0.00), 94(0.00), 98(16.80), 100(3.71), 101(8.57), 102(52.00),
103(0.60), 104(0.00), 112(0.00), 118(20.80), 121(10.00), 121(0.80),
133(0.70), 134(5.00), 135(26.40), 153(0.00), 206(99.60), 212(0.00),
229(6.20), 230(178.40), 231(0.00), 237(22.40), 238(6.40), 239(5.60),
240(24.00), 241(16.80), 242(35.00), 243(4.24), 244(25.20), 245(16.00),
247(0.30), 247(0.00), 248(0.80), 249(2.40), 250(4.60), 251(2.00),
261(1.50), 263(8.60), 265(37.20), 269(2.40), 278(86.40), 279(0.56),

Opisthonema oglinum (cont.)

280(	28.50)	, 284(	2.60)	, 286(	18.00)	, 288(	45.60)	, 289(	16.00)	, 291(	1.00)	,
292(	34.80)	, 294(	13.60)	, 295(	0.08)	, 300(	4.80)	, 306(	3.20)	, 307(	0.00)	,
311(	13.60)	, 312(	9.00)	, 314(	0.72)	, 320(	570.00)	, 324(	10.00)	, 326(	7.20)	,
327(	6.56)	, 329(	4.20)	, 329(	0.90)	, 331(	10.00)	, 335(	0.70)	, 336(	1.20)	,
337(	17.60)	, 338(	2.40)	, 339(	0.00)	, 342(	0.80)	, 343(	6.00)	, 344(	8.00)	,
344(	0.00)	, 345(	24.00)	, 351(	8.50)	, 352(	2.00)	, 353(	9.00)	, 354(	0.00)	,
355(	41.40)	, 356(	2.80)	, 357(	15.00)	, 360(	0.00)	, 363(	38.40)	, 364(	6.40)	,
366(	1.60)	, 370(	0.00)	, 371(	1.60)	, 378(	0.00)	, 380(	1.40)	, 381(	0.40)	,
387(	3.00)	, 405(	2.10)	, 407(	1.20)	, 425(	2.80)	, 428(	267.36)	, 429(	4.80)	,
430(	0.20)	, 434(	39.60)	, 435(	18.40)	, 438(	5.60)	, 436(	1.50)	, 439(	1.60)	,
440(	2.00)	, 441(	1.60)	, 442(	1.60)	, 443(	0.00)	, 444(	3.20)	, 445(	15.00)	,
451(	1.60)	, 461(	6.00)	, 527(	1.60)	, 538(	2.40)	, 539(	0.70)	, 540(	11.20)	,
541(	68.82)	, 542(	30.00)	, 542(	1.20)	, 543(	12.00)	, 544(	4.80)	, 545(	2.00)	,
546(	60.60)	, 547(	0.00)	, 548(	18.40)	, 549(	18.00)	, 550(	80.00)	, 554(	20.80)	,
555(	9.80)	, 558(	4.80)	, 559(	0.60)	, 560(	1.20)	, 561(	0.20)	, 564(	8.73)	,
566(	2.00)	, 570(	4.40)	, 571(	0.20)	, 590(	21.00)	, 604(	1.40)	, 609(	0.20)	,
617(	4.20)	, 618(	2.06)	, 624(	9.60)	, 624(	0.00)	, 627(	2.00)	, 631(	1.50)	,
632(	25.20)	, 633(	6.40)	, 635(	16.80)	, 635(	0.00)	, 638(	2.00)	, 640(	52.80)	,
642(	10.29)	, 642(	5.49)	, 643(	2.60)	, 644(	3.00)	, 646(	25.60)	, 652(	1.00)	,
654(	0.00)	, 656(	5.00)	, 657(	83.20)	, 658(	2.80)	, 659(	9.00)	, 663(	0.50)	,
664(	23.20)	, 665(	3.30)	, 666(	7.20)	, 666(	13.80)	, 667(	1.20)	, 668(	3.20)	,
669(	2.40)	, 670(	0.40)	, 671(	0.64)	, 679(	0.60)	, 700(	0.00)	, 711(	0.20)	,
747(	2.20)	, 757(	2.40)	, 770(	0.40)	, 774(	0.50)	, 818(	0.80)	, 839(	1.00)	,
841(	64.80)	, 846(	1.20)	, 847(	1.20)	, 848(	13.60)	, 849(	1.20)	, 849(	14.40)	,
850(	5.50)	, 851(	25.80)	, 853(	45.00)	, 853(	23.40)	, 854(	1.20)	, 855(	324.80)	,
856(	41.00)	, 857(	224.00)	, 858(	6.00)	, 859(	36.00)	, 860(	5.00)	, 861(	21.00)	,
862(	1.00)	, 863(	1.60)	, 867(	22.80)	, 868(	188.80)	, 875(	4.00)	, 881(	2.00)	,
882(	1178.00)	, 897(	1.68)	, 906(	2.40)	, 913(	0.60)	, 915(	0.00)	, 919(	1.00)	,
920(	0.00)	, 921(	0.60)	, 922(	2.80)	, 926(	9.10)	, 930(	0.28)	, 938(	0.00)	,
939(	0.40)	, 940(	6.20)	, 942(	0.70)	, 960(	2.80)	, 960(	135.20)	, 963(	0.40)	,
964(	0.44)	, 964(	8.32)	, 966(	2.50)	, 966(	18.40)	, 968(	2.10)	, 969(	47.10)	,
969(	2.00)	, 974(	0.84)	, 976(	0.04)	, 981(	1.20)	, 984(	2.05)	, 984(	2.52)	,
986(	2.40)	, 989(	7.00)	, 990(	1.40)	, 994(	7.20)	, 994(	4.80)	, 997(	0.40)	,
998(	1.62)	, 998(	84.00)	, 999(	6.00)	, 999(	12.00)	, 1001(	0.40)	, 1005(	25.00)	,
1005(	0.00)	, 1015(	8.50)	, 1017(	4.80)	, 1025(	2.20)	, 1028(	3.00)	, 1029(	9.50)	,
1029(	29.74)	, 1030(	10.40)	, 1031(	3.50)	, 1035(	37.50)	, 1038(	2.40)	, 1039(	16.00)	,
1046(	1.60)	, 1048(	9.00)	, 1049(	6.24)	, 1050(	10.80)	, 1054(	5.90)	, 1057(	8.92)	,
1058(	2.08)	, 1059(	0.00)	, 1062(	76.50)	, 1063(	17.80)	, 1064(	0.06)	, 1064(	0.22)	,
1071(	1.20)	, 1072(	0.40)	, 1072(	0.54)	, 1073(	4.80)	, 1077(	56.00)	, 1078(	28.60)	,
1083(	0.48)	, 1088(	1.80)	, 1108(	5.00)	, 1150(	26.84)	, 1165(	34.50)	, 1166(	28.50)	,
1167(	58.00)	, 1168(	0.60)	, 1169(	13.60)	, 1170(	2.00)	, 1171(	24.90)	, 1172(	82.50)	,
1173(	74.67)	, 1175(	23.76)	, 1180(	0.60)	, 1182(	2.61)	, 1182(	6.26)	, 1187(	17.80)	,
1188(	0.10)	, 1191(	74.52)	, 1203(	405.00)	, 1203(	4.50)	, 45(	0.00)			
Pellona sp		38(	0.00)	, 39(	0.00)							
Pellona harroweri		2(1.30)	, 3(3.80)	, 16(1.00)	, 16(0.20)	, 25(2.40)	, 30(7.20)	,
		39(72.00)	, 43(139.20)	, 44(45.60)	, 45(1.00)	, 46(4.80)	, 47(166.40)	,
		51(19.20)	, 60(22.40)	, 29(10.80)	, 59(0.28)	, 68(4.80)	, 70(0.40)	,
		71(7.95)	, 74(0.00)	, 78(205.20)	, 79(0.00)	, 83(2.40)	, 85(0.00)	,
		87(12.00)	, 87(5.40)	, 88(0.00)	, 90(6.40)	, 91(0.40)	, 94(1.20)	,
		95(43.20)	, 96(14.40)	, 98(16.80)	, 101(34.29)	, 102(12.00)	, 121(0.40)	,
		124(2.60)	, 129(0.00)	, 130(10.80)	, 131(52.80)	, 132(1.15)	, 133(15.40)	,
		134(0.00)	, 167(3.30)	, 173(0.80)	, 174(1.60)	, 237(0.00)	, 240(16.80)	,
		241(0.40)	, 242(72.00)	, 244(87.36)	, 250(3.20)	, 251(3.60)	, 261(6.00)	,
		262(6.40)	, 243(7.20)	, 269(3.60)	, 286(0.10)	, 289(4.00)	, 292(50.00)	,
		294(36.00)	, 295(2.80)	, 307(356.40)	, 311(44.80)	, 322(780.00)	, 328(2.00)	,
		329(37.20)	, 338(99.20)	, 339(2.40)	, 343(2.40)	, 354(2.00)	, 357(108.00)	,
		360(49.37)	, 365(29.60)	, 370(32.40)	, 402(21.00)	, 404(108.60)	, 405(4.20)	,

Pellona harroweri (cont.)

406(	5.10)	, 407(	0.40)	, 427(	7.60)	, 429(	0.80)	, 432(	3.40)	, 433(	9.20)	,
433(	5.60)	, 434(	237.80)	, 435(	4.60)	, 438(	4.20)	, 436(	11.00)	, 439(	2.40)	,
440(	1.60)	, 441(	21.00)	, 443(	2.40)	, 444(	3.20)	, 445(	1.00)	, 446(	2.20)	,
454(	0.00)	, 466(	4.00)	, 538(	19.20)	, 539(	1.00)	, 540(	81.20)	, 541(	80.29)	,
543(	28.00)	, 544(	19.60)	, 545(	13.00)	, 559(	5.80)	, 566(	0.00)	, 624(	73.60)	,
625(	0.00)	, 633(	49.60)	, 635(	0.00)	, 638(	1.00)	, 639(	7.00)	, 640(	4.80)	,
641(	6.00)	, 654(	0.56)	, 655(	58.60)	, 668(	29.20)	, 668(	6.40)	, 676(	10.56)	,
690(	0.00)	, 691(	3.00)	, 694(	25.20)	, 695(	3.60)	, 699(	81.60)	, 700(	40.00)	,
705(	12.60)	, 706(	9.80)	, 707(	20.80)	, 708(	14.40)	, 711(	0.60)	, 715(	10.00)	,
716(	14.00)	, 719(	2.00)	, 720(	2.40)	, 721(	0.00)	, 730(	3.00)	, 731(	0.20)	,
733(	1.20)	, 752(	378.00)	, 754(	0.40)	, 774(	2.10)	, 849(	0.00)	, 851(	82.60)	,
941(	30.80)	, 944(	177.60)	, 945(	0.14)	, 946(	6.80)	, 947(	8.40)	, 947(	37.80)	,
961(	338.40)	, 965(	2.40)	, 967(	34.00)	, 968(	15.40)	, 969(	1.20)	, 971(	11.70)	,
975(	20.40)	, 975(	71.68)	, 985(	4.46)	, 987(	1.50)	, 993(	0.00)	, 995(	1.20)	,
998(	7.20)	, 999(	31.20)	, 1002(	8.02)	, 1003(	24.80)	, 1003(	70.80)	, 1005(	153.36)	,
1006(	1.40)	, 1015(	43.40)	, 1017(	1.20)	, 1018(	28.00)	, 1019(	7.64)	, 1029(	115.60)	,
1030(	130.00)	, 1036(	5.60)	, 1037(	8.00)	, 1038(	1.80)	, 1039(	19.20)	, 1051(	24.00)	,
1052(	1.40)	, 1053(	0.00)	, 1054(	66.40)	, 1055(	19.20)	, 1056(	15.20)	, 1057(	13.38)	,
1058(	20.70)	, 1059(	23.60)	, 1060(	40.00)	, 1061(	42.20)	, 1063(	5.30)	, 1064(	0.34)	,
1065(	0.00)	, 1068(	12.80)	, 1069(	32.00)	, 1070(	1.20)	, 1072(	1.60)	, 1073(	0.00)	,
1074(	78.00)	, 1074(	2.60)	, 1075(	14.40)	, 1076(	2.40)	, 1077(	24.00)	, 1082(	14.70)	,
1083(	55.20)	, 1084(	5.00)	, 1085(	1.20)	, 1088(	0.20)	, 1182(	0.89)			,
8(	0.30)	, 12(	1.20)	, 21(	1.60)	, 22(	21.60)	, 23(	61.60)	, 24(	0.00)	,
30(	22.40)	, 32(	80.00)	, 33(	11.20)	, 31(	1.60)	, 34(	92.80)	, 35(	2.40)	,
36(	0.20)	, 37(	175.00)	, 39(	0.00)	, 41(	0.00)	, 42(	2.10)	, 47(	34.60)	,
49(	0.20)	, 52(	46.00)	, 53(	0.70)	, 56(	144.00)	, 57(	11.40)	, 58(	11.80)	,
59(	1.40)	, 64(	0.60)	, 66(	33.60)	, 71(	1.50)	, 80(	0.10)	, 93(	56.00)	,
100(	0.29)	, 104(	0.00)	, 105(	3.28)	, 118(	20.80)	, 121(	4.80)	, 122(	127.20)	,
125(	407.00)	, 128(	52.00)	, 129(	5440.00)	, 130(	21.60)	, 131(	165.60)	, 132(	0.13)	,
133(	36.40)	, 134(	10.00)	, 135(	7.20)	, 136(	79.80)	, 137(	558.00)	, 142(	135.00)	,
144(	3.80)	, 147(	2.40)	, 149(	1.50)	, 152(	0.40)	, 153(	63.00)	, 154(	78.00)	,
155(	54.00)	, 165(	3.00)	, 166(	0.00)	, 167(	0.30)	, 169(	39.94)	, 171(	0.20)	,
177(	0.04)	, 182(	2064.60)	, 184(	6.00)	, 203(	39.00)	, 204(	2.40)	, 206(	3.20)	,
210(	4.60)	, 212(	33.60)	, 214(	0.00)	, 215(	0.12)	, 216(	8.40)	, 220(	0.00)	,
228(	2.00)	, 229(	0.00)	, 230(	3.20)	, 231(	0.32)	, 232(	0.20)	, 233(	0.20)	,
252(	2.60)	, 264(	5.60)	, 265(	14.60)	, 270(	0.72)	, 271(	35.20)	, 278(	2.06)	,
280(	0.36)	, 281(	4.00)	, 282(	364.00)	, 283(	288.00)	, 301(	2.20)	, 306(	3.40)	,
307(	0.00)	, 315(	56.00)	, 318(	135.00)	, 320(	48.00)	, 302(	0.80)	, 331(	1.20)	,
334(	82.40)	, 335(	0.80)	, 341(	50.00)	, 342(	29.60)	, 344(	0.80)	, 345(	0.00)	,
348(	1.04)	, 351(	12.50)	, 353(	486.00)	, 355(	1.20)	, 363(	5.40)	, 364(	0.80)	,
370(	0.00)	, 380(	0.40)	, 399(	1.50)	, 403(	2.00)	, 409(	3.45)	, 414(	0.20)	,
423(	0.30)	, 428(	100.80)	, 434(	79.20)	, 435(	0.00)	, 440(	0.00)	, 444(	4.80)	,
447(	0.60)	, 451(	0.00)	, 455(	0.00)	, 458(	3.60)	, 462(	0.30)	, 464(	120.00)	,
465(	8000.00)	, 466(	6.40)	, 467(	8.00)	, 469(	226.80)	, 470(	4.40)	, 472(	3.90)	,
474(	29.60)	, 475(	889.57)	, 476(	0.80)	, 480(	4.20)	, 481(	7.20)	, 482(	0.00)	,
484(	0.00)	, 486(	0.00)	, 492(	0.00)	, 494(	7.80)	, 502(	0.51)	, 504(	0.10)	,
513(	1.00)	, 521(	65.60)	, 522(	3.12)	, 527(	2.00)	, 532(	0.80)	, 537(	0.00)	,
547(	0.00)	, 548(	14.00)	, 549(	9.00)	, 550(	53.00)	, 553(	25.00)	, 554(	156.00)	,
555(	119.00)	, 564(	26.18)	, 565(	0.40)	, 567(	0.00)	, 571(	0.40)	, 574(	4.20)	,
575(	112.00)	, 580(	19.54)	, 581(	1282.60)	, 582(	66.00)	, 583(	156.00)	, 584(	88.00)	,
586(	244.80)	, 587(	11.60)	, 588(	720.00)	, 595(	3.00)	, 609(	1.40)	, 611(	0.40)	,
614(	1.00)	, 619(	6.80)	, 620(	0.40)	, 622(	0.40)	, 632(	14.40)	, 633(	1.60)	,
634(	5.00)	, 635(	0.00)	, 646(	868.80)	, 647(	128.00)	, 648(	0.80)	, 650(	1.00)	,
652(	2.00)	, 657(	0.00)	, 662(	1.80)	, 663(	0.50)	, 737(	2.00)	, 739(	52.50)	,
740(	83.00)	, 741(	120.00)	, 747(	28.20)	, 748(	592.80)	, 749(	0.30)	, 750(	200.00)	,
753(	3.20)	, 754(	20.20)	, 755(	1827.00)	, 756(	251.66)	, 757(	226.80)	, 758(	0.10)	,
762(	0.20)	, 763(	0.83)	, 766(	0.50)	, 768(	114.00)	, 771(	1.50)	, 772(	980.00)	,

Sardinella aurita

Sardinella aurita (cont.)

773(	336.00)	, 774(	3.00)	, 781(	1.80)	, 782(	1.00)	, 783(	2.40)	, 784(	50.40)	,
787(	426.00)	, 792(	5.10)	, 793(	42.20)	, 795(	2.80)	, 799(	781.20)	, 797(	294.70)	,
801(	3.60)	, 805(	0.00)	, 830(	0.30)	, 832(	0.50)	, 834(	4.80)	, 836(	99.00)	,
837(	0.30)	, 839(	0.20)	, 840(	0.90)	, 841(	9.70)	, 842(	2.10)	, 843(	7.40)	,
845(	2.40)	, 854(	3.60)	, 855(	0.40)	, 856(	0.70)	, 862(	0.00)	, 864(	52.00)	,
874(	0.90)	, 875(	36.00)	, 876(	6.00)	, 880(	4.00)	, 881(	0.80)	, 882(	38.00)	,
885(	0.10)	, 886(	18.60)	, 887(	21.00)	, 890(	0.20)	, 891(	29.00)	, 892(	0.60)	,
894(	7.40)	, 895(	24.00)	, 917(	0.40)	, 919(	0.00)	, 922(	1.60)	, 930(	4.88)	,
931(	1.00)	, 934(	64.00)	, 936(	0.11)	, 937(	0.10)	, 938(	0.00)	, 950(	1.80)	,
952(	6.30)	, 958(	3.60)	, 959(	0.60)	, 960(	0.80)	, 960(	38.40)	, 964(	0.00)	,
970(	73.80)	, 976(	3.20)	, 978(	2.80)	, 979(	410.80)	, 984(	9.69)	, 994(	8.40)	,
998(	330.00)	, 999(	6.00)	, 1016(	0.00)	, 1032(	0.10)	, 1032(	3.00)	, 1047(	0.60)	,
1059(	0.00)	, 1062(	6.30)	, 1063(	1.00)	, 1077(	40.00)	, 1078(	748.80)	, 1080(	98.35)	,
1081(	160.00)	, 1082(	19.20)	, 1083(	51.60)	, 1083(	1.80)	, 1084(	1.00)	, 1085(	0.30)	,
1085(	7.20)	, 1086(	868.00)	, 1088(	17.20)	, 1089(	614.40)	, 1100(	43.20)	, 1108(	15.00)	,
1109(	20.80)	, 1111(	74.40)	, 1112(	5.00)	, 1113(	118.80)	, 1115(	14.00)	, 1124(	146.40)	,
1128(	70.40)	, 1157(	1.50)	, 1160(	0.12)	, 1173(	0.13)	, 1173(	4.53)	, 1175(	19.44)	,
1176(	3.72)	, 1180(	0.00)	, 1182(	2.09)	, 1190(	6.60)	, 1191(	0.28)	, 1192(	0.20)	,
1198(	28.00)	, 1201(	0.20)	, 1206(	0.00)	, 45(	146.00)					,

COLOCUNGRIDAE

Coloconger sp	702(	0.00)	, 980(	0.50)
Coloconger meadi	1044(	1.20)	, 1045(	2.00)

CONGRIDAE

92(	4.60)	, 96(	5.60)	, 175(	0.00)	, 352(	0.00)	, 383(	0.80)	, 392(	0.70)	,
399(	0.00)	, 619(	2.40)	, 730(	0.00)	, 939(	0.00)	, 993(	4.70)	, 1023(	0.00)	,
1069(	2.24)	, 1070(	0.48)	, 1075(	3.00)	, 1082(	1.20)					,

Arisoma sp.

937(0.18)

Arisoma analis

842(1.20)

Conger triporiceps

483(1.00)

Hildebrandia sp.

510(	0.00)	, 576(	0.00)	, 593(	0.20)	, 732(	0.00)	, 780(	1.50)	, 795(	0.20)	,
801(	0.00)	, 803(	0.80)	, 808(	0.35)	, 809(	0.30)	, 810(	0.00)	, 811(	0.30)	,
814(	0.00)	, 823(	0.20)	, 831(	1.56)	, 833(	1.08)	, 1134(	0.30)	, 1135(	0.68)	,
1142(	0.06)	, 1143(	0.03)	, 1151(	0.42)	, 1158(	0.60)	, 1174(	0.00)	, 1179(	0.06)	,
1183(	0.80)	, 1191(	0.36)									,

Hildebrandia flava

842(	0.60)	, 845(	2.40)	, 867(	2.86)	, 1000(	0.20)	, 1008(	0.76)	, 1010(	1.30)	,
1022(	2.40)	, 1031(	0.50)	, 843(	5.54)	, 899(	0.30)	, 1009(	0.00)	, 1023(	1.20)	,
858(1.76)	, 1014(0.50)	, 1007(0.04)	, 1130(0.28)	, 173(1.60)			,

CORYPHAENIDAE

Coryphaena hippurus	234(2.60)
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CARAPOIDAE

Snyderidia bothrops	1044(0.60)
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CRABS	321(0.40)	, 367(11.20)	, 382(21.00)	, 384(4.00)	, 385(4.00)	, 400(31.20)	,
	401(2.00)	, 654(8.60)	, 737(1.00)	, 937(0.30)	, 989(0.20)	, 1120(0.30)	,
	1159(	2.40)	, 1174(	0.00)								,	

Calappa sp

82(	4.40)	, 596(	0.60)	, 681(	0.00)	, 970(	0.24)	, 403(	8.00)	, 691(	3.00)	,
652(	0.30)											,

Calappa sulcata

431(0.20), 1063(1.02)

Calappa flammea

1063(1.14)

Calappa nitida

1063(1.20)

Acanthocarpus alexandri

1093(0.12)

Geryon sp.

395(1.20)	, 396(3.00)	, 397(4.50)	, 398(0.60)	, 703(4.60)	, 1142(6.30)	,
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Geryon quinquedens

616(42.00)	, 1011(5.20)	, 1012(4.30)	, 1042(1.40)	, 1044(2.30)	, 1092(0.70)	,
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Geryon quinqueedens (cont.)	1102(1.50)	1103(4.90)	1120(0.45)						
Neolithodes agassizii	1045(2.20)										
MAJIDAE	229(	0.00)										
PORTUNIDAE	81(	0.00)	89(	1.20)	91(	2.00)	416(	1.20)	468(	0.80)	1102(	3.30)
Portunus spinimanus	1098(	1.40)										
Portunus spinicarpus	1090(	10.80)	1093(	1.29)								
Callinectes sp	64(	0.40)	652(	1.40)	663(	2.50)	1014(	0.00)	106(	0.00)	677(	9.40)
	653(	3.00)										
Callinectes ornatus	644(	3.80)										
Kaninooides loevis	213(	0.00)										
CRUSTACEANS	81(	0.00)	82(	1.40)								
Gnathophausia zoea	743(	0.03)										
Squilla sp	89(	0.00)	145(	0.10)	603(	0.00)	754(	0.00)	1011(	0.00)	139(	0.20)
	619(	0.00)	354(	0.00)	878(	0.23)	1166(	0.02)				
Squilla splijdingi	106(	0.00)	198(	0.00)								
Squilla empusa	438(	2.80)	724(	0.00)	1071(	0.48)	442(	0.00)	1084(	0.40)	1052(	0.00)
	1107(	0.28)	1134(	0.00)	1143(	0.20)	1179(	0.04)				
Squilla edentata	1129(	0.24)										
CYNOGLOSSIDAE	331(	0.00)	448(	0.00)	454(	2.40)	576(	0.00)	594(	1.96)	808(	0.00)
	936(	0.00)										
Symphurus sp	43(	0.00)	68(	0.00)	84(	2.80)	124(	0.00)	145(	0.00)	352(	0.00)
	358(	2.77)	388(	0.00)	545(	0.00)	603(	0.00)	641(	0.00)	721(	0.00)
	823(	0.00)	830(	0.00)								
Symphurus plagiusa	130(	0.00)	150(	20.80)	644(	0.00)	653(	0.30)	938(	0.00)	1036(	1.60)
	1061(	21.80)	1064(	0.04)	1069(	1.92)	1076(	0.60)	145(	0.00)	652(	0.40)
	1000(	0.80)	1063(	0.48)	1070(	1.60)	539(	0.00)	1058(	0.42)	688(	0.60)
	1065(	1.20)	1135(	0.20)	1160(	0.06)	1163(	0.02)	1165(	0.00)	1167(	0.00)
	1171(	0.00)										
Symphurus diomedianus	361(	0.00)	842(	0.60)	1019(	10.20)	1082(	0.00)	1090(	0.04)	794(	0.00)
	1023(	0.00)	846(	0.00)	1084(	2.00)	1092(	0.70)	1101(	0.30)	1103(	1.12)
	1107(	0.24)	1182(	0.00)	1192(	0.00)	1194(	0.10)				
DACTYLOPTERIDAE	814(	0.00)										
Dactylopterus volitans	13(	0.80)	22(	0.00)	54(	0.16)	65(	0.20)	66(	1.40)	89(	0.00)
	90(	0.00)	118(	5.40)	135(	0.60)	147(	4.80)	148(	6.00)	149(	1.80)
	155(	0.20)	157(	0.00)	158(	0.40)	160(	0.24)	184(	0.00)	187(	0.80)
	188(	1.00)	220(	0.00)	221(	0.00)	226(	0.00)	227(	0.60)	236(	0.00)
	259(	4.00)	260(	5.20)	266(	0.80)	269(	0.60)	274(	0.80)	277(	0.50)
	279(	0.00)	296(	0.00)	297(	0.00)	320(	0.00)	329(	0.60)	331(	1.60)
	333(	0.10)	366(	0.60)	382(	0.00)	399(	0.00)	423(	0.20)	427(	1.80)
	461(	1.40)	462(	0.60)	463(	2.00)	466(	3.20)	470(	6.60)	473(	5.40)
	474(	4.00)	478(	85.20)	480(	14.00)	482(	21.00)	484(	5.20)	495(	1.20)
	508(	0.40)	515(	6.00)	517(	2.80)	537(	0.30)	548(	1.60)	549(	2.00)
	567(	1.00)	618(	1.37)	619(	0.40)	626(	8.00)	627(	0.60)	628(	9.00)
	630(	0.20)	631(	5.00)	634(	2.00)	644(	0.40)	648(	0.30)	650(	1.00)
	651(	2.40)	652(	1.00)	653(	0.00)	660(	0.30)	661(	0.20)	662(	5.20)
	663(	4.00)	664(	3.20)	698(	4.00)	737(	0.10)	749(	14.40)	750(	32.50)
	753(	0.20)	763(	0.83)	769(	1.80)	779(	14.80)	783(	0.50)	785(	3.60)
	786(	16.60)	788(	4.20)	794(	1.00)	795(	2.00)	801(	1.40)	803(	5.60)
	804(	1.04)	806(	2.00)	807(	1.00)	813(	1.20)	816(	0.15)	830(	0.00)
	834(	1.60)	835(	0.00)	841(	0.00)	842(	0.00)	865(	1.20)	866(	0.60)
	877(	0.40)	881(	2.80)	884(	0.00)	885(	0.30)	890(	0.00)	891(	0.00)
	894(	0.10)	919(	0.40)	920(	4.00)	926(	1.20)	936(	9.27)	937(	0.90)
	938(	6.20)	939(	2.80)	940(	10.80)	946(	3.60)	949(	0.00)	950(	0.60)

Dactylopterus volitans (cont.)

951(	3.60)	, 954(	0.92)	, 955(	0.30)	, 959(	1.20)	, 962(	4.50)	, 964(	0.00)	,
973(	1.00)	, 977(	0.40)	, 981(	4.80)	, 982(	0.70)	, 990(	2.52)	, 997(	0.36)	,
1079(	0.40)	, 1080(	2.87)	, 1082(	1.20)	, 1089(	19.20)	, 1090(	6.00)	, 1091(	0.40)	,
1097(	210.00)	, 1098(	2.24)	, 1099(	12.80)	, 1100(	9.60)	, 1104(	39.00)	, 1105(	14.00)	,
1116(	0.30)	, 1117(	4.60)	, 1118(	2.00)	, 1124(	2.40)	, 1125(	2.00)	, 1126(	5.00)	,
1127(	0.24)	, 1131(	1.60)	, 1132(	3.60)	, 1133(	1.70)	, 1155(	0.50)	, 1157(	0.40)	,
1159(	1.20)	, 1160(	1.20)	, 1184(	8.00)	, 1192(	4.00)	, 1195(	0.00)	, 1201(	0.06)	,
1202(	1.40)											

DICERATIIDAE

Phrynichthys wedli 1041(1.00)

DIODONIIDAE

Chilomycterus sp 22(0.00)

Chilomycterus antillarum 68(0.00)

126(	12.80)	, 135(	1.00)	, 154(	2.40)	, 159(	2.20)	, 180(	0.72)	, 234(	0.20)	,
509(	0.60)	, 771(	1.50)	, 791(	2.00)	, 794(	1.00)	, 795(	2.00)	, 797(	2.10)	,
803(	0.40)	, 863(	0.20)	, 910(	0.20)	, 938(	0.40)	, 939(	0.00)	, 957(	0.40)	,
963(	0.60)	, 970(	0.50)	, 972(	0.80)	, 976(	0.00)	, 1008(	0.68)	, 1089(	1.20)	,
1090(	0.16)	, 1099(	0.30)	, 1104(	10.20)	, 1105(	4.50)	, 1115(	2.00)	, 1116(	0.60)	,
1121(	4.42)	, 1123(	8.40)	, 1125(	1.60)	, 1131(	1.20)	, 1132(	1.30)	, 1137(	0.60)	,
1153(	0.60)	, 1154(	1.20)	, 1157(	0.20)	, 1160(	0.30)	, 1178(	0.08)			

Diodon sp. 107(1.50), 232(0.00), 254(0.00), 255(0.00), 257(0.00), 259(0.60),
 478(5.04), 534(0.80), 585(0.80), 628(3.00), 631(2.50), 931(0.40),
 978(1.60), 1080(50.48)

Diodon hystrix 163(2.20), 176(0.40), 299(0.55), 331(1.20), 618(2.74), 620(0.20),
 630(0.20), 649(0.40), 722(1.40), 1059(0.04), 1157(12.30)

Diodon holocanthus 778(1.00), 779(2.00), 1157(17.10), 1205(0.06)

DIRETMIDAE 612(2.70)

Diretmoides pauciradiatus 390(0.00), 391(0.10), 392(0.20), 1120(0.09)

DYSOMMIDAE 1158(0.40)

ECHINODERMATA

Sea urchin 6(0.00)

ECHENEIIDAE

Echeneis naucrates 2(1.00), 44(0.60), 45(2.60), 52(5.60), 64(2.40), 65(0.30),
 72(3.40), 73(4.60), 132(0.00), 235(2.80), 243(2.40), 245(1.00),
 281(1.80), 310(0.80), 325(0.20), 340(5.00), 363(0.20), 366(4.00),
 386(6.20), 388(1.20), 407(0.00), 587(1.20), 621(1.40), 622(0.60),
 627(1.20), 634(2.00), 637(1.20), 645(1.00), 652(1.00), 662(0.40),
 733(0.40), 745(0.60), 753(2.80), 756(1.03), 762(0.60), 850(0.00),
 863(1.00), 889(1.00), 919(1.00), 939(0.40), 963(2.00), 973(2.20),
 982(2.20), 989(0.30), 991(0.70), 992(1.40), 997(1.80), 999(0.00),
 1031(0.40), 1090(0.20), 1166(0.02), 1196(1.00), 1205(1.40), 1207(3.00),

Echeneis remora 345(1.60), 350(1.60), 352(1.60), 362(0.60), 374(0.00), 384(2.40),
 740(1.00), 936(1.45), 944(0.08)

Remora sp. 103(0.00), 476(0.20), 520(0.40)

ELOPIDAE

Elops saurus 47(2.80), 95(3.40), 136(1.20), 154(3.80), 237(1.60), 244(11.40),
 388(9.20), 408(3.20), 538(8.80), 546(14.40), 607(4.20), 93(2.60),
 153(3.20), 240(20.00), 404(3.00), 540(1.80), 608(3.23), 96(8.20),
 245(4.00), 566(9.60), 234(3.20), 447(12.00), 850(18.00), 995(3.80),
 1005(20.60), 1020(2.50), 1073(2.60), 851(8.40), 1015(24.80), 1003(14.00),

Elops saurus (cont.)

1029(4.00) ,1166(13.00) ,1169(1.80) ,1170(12.80) ,1171(1.34)

EMMELICHTHYIDAE

22(3.50)

Emmelichthys atlanticus

1032(1.20)

Inermia vittata

1100(3.60)

ENGRAULIDIDAE

206(131.20) , 230(14.40) , 236(0.04) , 239(0.00) , 338(110.40) , 344(5.60) ,
353(85.60) , 358(2.77) , 375(0.00) , 377(20.00) , 388(23.20) , 995(1.20) ,

Anchoviella sp

1(70.40) , 15(7.80) , 26(0.00) , 27(126.80) , 30(78.40) , 93(683.20) ,
94(0.00) , 95(43.20) , 96(0.00) , 98(16.80) , 100(14.29) , 101(25.71) ,
102(6.00) , 121(6.40) , 169(3.84) , 203(47.40) , 204(52.80) , 205(16.50) ,
206(12.80) , 209(0.40) , 215(16.00) , 247(0.00) , 252(26.00) , 308(320.00) ,
406(39.10) , 408(3.00) , 410(7.70) , 451(0.00) , 452(6.00) , 919(0.32) ,
928(588.80) , 961(7.20) , 967(22.00) , 969(95.60) , 971(6.44) , 975(8.40) ,
985(2.48) , 987(4.00) , 993(2.24) , 994(16.80) , 998(180.00) , 999(24.00) ,
1002(1.56) , 1003(0.00) , 1005(127.80)

Anchoviella lepidentostole

112(0.00) , 309(20.80) , 310(32.00) , 311(67.20) , 329(1.80) , 338(22.40) ,
357(36.00) , 359(3.40) , 360(6.86) , 365(19.40) , 366(26.40) , 370(684.00) ,
375(3.00) , 378(91.20) , 386(0.00) , 402(43.00) , 404(6.20) , 405(2.80) ,
434(5.40) , 435(9.20) , 438(5.60) , 439(3.20) , 440(1.00) , 442(0.40) ,
443(0.80) , 476(11.00) , 493(549.43) , 624(83.20) , 655(0.00) , 690(0.20) ,
692(0.00) , 714(3.00) , 762(5.40) , 767(0.00) , 841(8.50) , 842(0.00) ,
862(5.00) , 867(1.42) , 868(2.40) , 920(24.00) , 941(17.10) , 943(0.02) ,
944(44.40) , 946(68.00) , 961(7.92) , 967(20.00) , 969(38.80) , 971(1.74) ,
975(5.60) , 985(7.00) , 987(10.00) , 993(10.50) , 994(4.80) , 998(45.00) ,
999(25.20) , 1002(7.80) , 1005(97.98) , 1006(0.00) , 1015(367.60) , 1016(2.40) ,
1018(9.60) , 1029(9.92) , 1030(23.40) , 1052(0.36) , 1050(18.00) , 1054(11.00) ,
1055(0.64) , 1057(11.14) , 1058(19.80) , 1059(23.60) , 1060(3.20) , 1061(17.92) ,
1062(6.30) , 1063(4.24) , 1067(0.56) , 1069(1.28) , 1070(0.32) , 1071(0.80) ,
1072(0.80) , 1073(0.00) , 1077(40.00)

Anchoviella brevirostris

428(66.72) , 920(33.60) , 1015(284.00) , 1018(3.20) , 1019(7.64) , 1052(0.70) ,
1053(8.40) , 1054(176.80) , 1055(1.60) , 1057(34.24) , 1058(40.00) , 1059(55.20) ,
1060(2.80) , 1061(51.20) , 1063(25.44) , 1064(5.60) , 1065(21.60) , 1067(1.60) ,
1069(0.00) , 1070(14.72) , 1072(0.32) , 1073(1.20) , 1077(47.11)

Anchoviella cayennensis

999(4.80)

Anchoviella perrasciata

1128(0.64) , 1141(51.20) , 1156(0.80) , 1170(0.80)

Anchoa sp

2(1.00) , 3(66.50) , 5(0.00) , 16(16.80) , 16(2.80) , 25(10.20) ,
27(380.60) , 28(0.00) , 30(11.20) , 37(8.00) , 38(33.60) , 39(104.00) ,
49(0.60) , 29(410.40) , 71(97.20) , 86(0.00) , 87(0.00) , 87(0.00) ,
88(0.00) , 153(0.00) , 220(0.00) , 221(0.00) , 231(0.00) , 287(0.00) ,
378(24.00) , 407(2.00) , 434(396.40) , 438(8.40) , 439(4.80) , 443(1.60) ,
447(58.80) , 451(6.00) , 452(3.00) , 522(0.72) , 558(3.60) , 560(1.40) ,
624(16.00) , 633(36.00) , 637(19.56) , 638(88.40) , 639(105.00) , 640(84.80) ,
654(70.00) , 676(10.56) , 694(2.80) , 695(7.20) , 725(0.80) , 726(0.80) ,
728(0.80) , 729(28.00) , 851(192.60) , 906(0.36) , 944(0.80) , 999(120.00) ,
1128(10.24) , 1170(0.16) , 1181(0.00)

Anchoa spinifer

1(19.20) , 2(2.00) , 15(1.20) , 38(110.40) , 43(0.00) , 44(0.00) ,
46(5.80) , 61(3.00) , 62(31.80) , 62(15.00) , 68(8.00) , 69(5.60) ,
70(12.80) , 71(25.20) , 74(0.00) , 75(4.00) , 76(2.00) , 85(308.00) ,
86(12.00) , 87(8.00) , 91(4.60) , 92(1.20) , 94(8.40) , 95(57.60) ,
96(7.20) , 98(44.80) , 101(47.14) , 102(4.00) , 121(68.80) , 173(2.40) ,
174(7.20) , 240(7.20) , 242(18.00) , 243(4.00) , 244(76.20) , 251(6.00) ,
261(3.92) , 262(10.00) , 286(0.20) , 289(1.60) , 292(0.80) , 294(0.24) ,
295(1.60) , 309(14.00) , 310(108.00) , 322(0.00) , 328(1.00) , 339(16.00) ,
358(13.85) , 359(0.00) , 360(2.31) , 365(2.60) , 369(36.80) , 370(0.00) ,
371(4.00) , 375(115.20) , 378(0.00) , 389(1.50) , 389(0.00) , 402(1.00) ,

Anchoa spinger (cont.)

404(6.20), 405(2.10), 407(0.40), 447(1.20), 453(0.33), 454(6.00),
 539(5.90), 540(0.00), 543(64.00), 544(15.60), 545(17.00), 559(2.80),
 624(105.60), 625(3.60), 633(0.80), 639(15.40), 640(16.00), 641(5.00),
 641(1.00), 654(0.34), 655(0.00), 665(4.40), 666(0.00), 668(5.60),
 675(84.00), 690(1.20), 730(1.00), 732(4.60), 733(11.40), 849(5.76),
 941(36.00), 944(14.80), 946(6.80), 947(47.70), 948(5.20), 961(5.04),
 965(5.20), 967(1.60), 971(0.50), 975(1.12), 985(6.00), 987(2.00),
 993(0.74), 995(1.50), 999(6.00), 1002(10.92), 1003(8.32), 1005(1.00),
 1005(38.34), 1006(7.20), 1006(3.76), 1015(23.20), 1018(9.60), 1054(4.80),
 1060(13.20), 1061(23.00), 1062(0.00), 1064(0.00), 1065(4.56), 1067(0.00),
 1069(64.00), 1070(7.36), 1072(0.00), 1074(0.60), 1075(3.60), 1076(3.00),
 1182(1.04)

Anchoa filifera

30(56.00), 41(0.30), 42(3.10), 43(7.20), 43(2.40), 52(0.00),
 29(676.80), 69(0.80), 75(1.60), 78(2.60), 100(0.00), 747(284.60),
 756(11.66), 846(387.20), 847(19.68), 853(54.60), 858(0.88), 859(49.40),
 861(67.20), 920(4.80), 928(55.20), 940(0.00), 941(13.70), 944(62.80),
 946(11.90), 947(71.60), 969(0.00), 1006(0.00), 1031(1.00), 1077(12.00),
 1082(0.12), 1085(2.40), 1091(0.24), 1169(1.20), 1182(22.96)

Anchoa lyolepis

45(27.00), 46(0.00), 47(0.00), 60(11.20), 61(3.00), 59(2.80),
 62(1.20), 63(5.80), 93(44.80), 94(0.00), 95(21.60), 100(10.71),
 104(115.20), 105(80.00), 118(125.20), 124(143.40), 128(150.00), 130(0.90),
 131(0.00), 133(4.20), 153(25.60), 165(0.00), 212(9.60), 215(5.00),
 239(0.10), 240(1.20), 243(9.60), 247(0.02), 260(32.00), 261(0.00),
 406(3.40), 447(52.80), 476(0.20), 494(16.50), 542(1.20), 547(28.80),
 549(11.00), 555(1.40), 556(20.18), 563(0.50), 604(0.00), 632(21.60),
 635(68.60), 637(3.04), 668(40.80), 675(21.00), 690(1.60), 767(4.63),
 774(1.10), 832(42.00), 917(0.00), 944(0.00), 966(56.96), 969(67.20),
 1005(21.30), 1082(0.00), 1083(2.60)

Anchoa trinitatis

130(3.60)

Anchoa parva

167(0.26), 731(0.00), 733(6.00), 758(64.40), 774(0.56), 831(0.00),

Anchoa cubana

940(0.00)

Anchoa cayorum

1029(11.60), 1052(0.08), 1055(1.28), 1057(2.66), 1058(79.20), 1059(49.20),
 1061(1.28), 1063(4.24), 1064(0.00), 1071(0.00), 1072(0.16)

Anchoa lamprotaenia

1083(2.40), 1108(288.00), 1180(0.40)

Anchoa hepsetus

38(86.40), 44(58.80), 47(413.20), 49(0.00), 60(120.40), 29(676.80),
 63(96.80), 68(20.80), 71(1.65), 87(0.00), 89(0.00), 92(1.00),
 94(0.00), 96(16.80), 100(12.57), 102(6.00), 165(1.40), 243(0.00),
 257(20.00), 263(1.20), 292(0.00), 632(252.00), 39(104.00), 48(0.00),
 61(33.60), 64(0.06), 78(5.40), 91(2.00), 95(57.60), 101(42.86),
 166(102.00), 259(8.00), 428(601.20), 46(35.20), 59(18.20), 88(0.00),
 98(28.00), 253(30.40), 633(24.00), 52(0.00), 93(140.00), 291(0.00),
 69(0.00), 131(0.00), 635(77.00), 643(6.60), 666(34.20), 675(67.20),
 747(180.40), 856(19.50), 946(102.00), 965(7.00), 1088(5.60), 642(102.86),
 668(2.80), 855(81.20), 947(89.40), 655(72.00), 943(0.14), 733(5.40),
 984(8.54), 1169(0.00), 1173(5.33), 1174(1.34), 1175(0.05)

Anchoa clupeioides

343(102.00)

Cetengraulis edentulus

69(0.60), 75(4.00), 76(0.00), 102(168.00), 104(0.00), 130(0.00),
 153(18.00), 294(9.60), 358(1.85), 375(36.00), 389(0.00), 851(0.00),
 961(1.44), 1070(1.12), 1077(12.00), 1083(5.40), 1108(30.00)

Engraulis sp

101(0.86), 326(56.00), 451(0.00)

Engraulis eurystole

27(253.80), 30(302.40), 41(0.00), 42(2.10), 45(55.00), 47(27.60),
 52(2.80), 59(2.80), 63(0.00), 68(0.00), 69(0.00), 70(1.20),
 60(2.80), 75(0.00), 85(0.00), 90(0.00), 93(22.40), 94(0.00),
 100(0.00), 100(0.00), 102(28.00), 103(12.00), 104(96.00), 118(167.00),
 121(28.80), 128(108.00), 137(486.00), 141(0.00), 153(0.00), 155(90.00),
 165(0.00), 167(0.00), 169(53.76), 198(0.00), 204(2.40), 205(0.00),

Engraulis eurystole (cont.)

210(	3.36)	, 212(	0.00)	, 224(	43.20)	, 227(	6.00)	, 228(	320.00)	, 231(	6.80)	,
235(	570.80)	, 252(	707.20)	, 257(	8.80)	, 260(	0.00)	, 267(	1.40)	, 268(	8.40)	,
269(	0.00)	, 270(	412.80)	, 278(	2.47)	, 280(	0.84)	, 310(	6.40)	, 323(	32.00)	,
325(	9.00)	, 326(	14.40)	, 328(	25.00)	, 329(	20.40)	, 355(	0.00)	, 360(	21.60)	,
415(	0.00)	, 428(	100.80)	, 476(	0.60)	, 489(	70.20)	, 493(	4532.40)	, 498(	3.55)	,
549(	13.00)	, 556(	0.45)	, 560(	1.60)	, 690(	0.20)	, 732(	0.00)	, 739(	0.74)	,
767(	0.02)	, 781(	1.00)	, 832(	1.00)	, 940(	1311.60)	, 941(	0.00)	, 943(	0.54)	,
949(	2.00)	, 958(	2.60)	, 960(	53.60)	, 964(	1.92)	, 970(	100.40)	, 975(	1.68)	,
976(	0.40)	, 1018(	0.00)	, 1029(	11.60)	, 1032(	81.54)	, 1058(	1.32)	, 1062(	2.70)	,
1063(	2.88)	, 1070(	0.00)	, 1071(	0.00)	, 1072(	0.64)	, 1073(	1.20)	, 1078(	1.82)	,
1082(	0.06)	, 1083(	0.08)	, 1085(	63.36)	, 1111(	46.80)					,
Lycengraulis grossidens	2(0.00)	, 38(0.00)	, 46(0.00)	, 47(0.00)	, 51(0.00)	, 69(0.00)	,
	98(5.60)	, 101(1.71)	, 167(0.24)	, 237(1.20)	, 240(6.90)	, 241(0.60)	,
	243(0.16)	, 250(3.20)	, 251(0.00)	, 261(0.16)	, 263(2.40)	, 291(2.00)	,
	292(3.60)	, 293(0.20)	, 294(0.80)	, 308(192.00)	, 371(0.00)	, 378(0.80)	,
	543(4.00)	, 559(1.20)	, 560(0.10)	, 566(0.00)	, 637(1.20)	, 638(1.20)	,
	668(0.40)	, 700(4.00)	, 848(3.00)	, 941(6.30)	, 944(0.80)	, 947(3.60)	,
	971(0.60)	, 975(1.92)	, 993(0.74)	, 995(0.30)	, 999(2.40)	, 1002(0.78)	,
	1005(5.00)	, 1006(0.84)	, 1018(1.20)	, 1054(18.00)	, 1065(0.96)	, 1182(7.30)	,

EPHIPPIDAE

Chaetodipterus faber

2(	72.00)	, 3(	45.00)	, 26(	4.00)	, 38(	3.00)	, 40(	105.40)	, 41(	3.00)	,
42(	2.60)	, 43(	9.60)	, 44(	11.60)	, 47(	22.20)	, 50(	14.60)	, 51(	2.67)	,
52(	10.50)	, 61(	3.60)	, 58(	1.00)	, 68(	4.60)	, 86(	0.00)	, 84(	0.00)	,
93(	1.40)	, 98(	3.60)	, 99(	0.00)	, 103(	4.60)	, 142(	2.00)	, 167(	0.30)	,
173(	27.80)	, 208(	2.80)	, 210(	4.20)	, 216(	1.86)	, 220(	2.40)	, 221(	6.00)	,
237(	4.70)	, 240(	10.80)	, 251(	5.20)	, 259(	3.00)	, 269(	0.40)	, 284(	1.80)	,
285(	3.00)	, 286(	2.60)	, 287(	0.60)	, 291(	0.08)	, 310(	10.00)	, 322(	15.60)	,
324(	0.80)	, 325(	21.00)	, 329(	8.40)	, 331(	2.40)	, 337(	17.00)	, 338(	6.60)	,
342(	4.40)	, 343(	164.40)	, 352(	3.00)	, 356(	15.20)	, 358(	3.46)	, 369(	48.80)	,
371(	104.00)	, 388(	24.00)	, 407(	105.00)	, 434(	5.40)	, 439(	4.00)	, 446(	2.80)	,
453(	0.17)	, 527(	9.20)	, 539(	2.80)	, 540(	1.60)	, 544(	12.80)	, 557(	2.80)	,
570(	1.80)	, 571(	4.00)	, 607(	2.00)	, 609(	0.80)	, 623(	20.80)	, 630(	2.60)	,
633(	3.20)	, 642(	1.03)	, 650(	2.00)	, 651(	3.60)	, 665(	8.80)	, 669(	0.80)	,
670(	4.00)	, 690(	13.60)	, 705(	28.00)	, 706(	14.00)	, 708(	64.00)	, 733(	40.00)	,
927(	11.80)	, 928(	3.80)	, 941(	28.00)	, 944(	36.20)	, 945(	49.20)	, 946(	44.20)	,
947(	30.80)	, 948(	14.00)	, 962(	6.00)	, 964(	47.60)	, 965(	28.20)	, 967(	5.60)	,
971(	32.00)	, 974(	5.20)	, 984(	0.97)	, 987(	11.00)	, 988(	3.20)	, 989(	0.30)	,
993(	15.00)	, 995(	31.20)	, 999(	10.60)	, 1005(	4.80)	, 1006(	6.00)	, 1017(	41.60)	,
1025(	2.80)	, 1028(	11.08)	, 1055(	0.10)	, 1057(	3.40)	, 1058(	1.80)	, 1060(	9.40)	,
1067(	4.00)	, 1075(	72.60)	, 1077(	8.89)	, 1140(	2.00)	, 1144(	3.50)	, 1169(	2.50)	,
1170(	0.80)	, 1184(	16.00)									,

EXOCOETIDAE

Exocoetus volitans

Hirundichthys speculiger

Parexocoetus brachypterus

938(	0.00)	, 950(	0.30)	, 951(	0.00)	, 981(	0.00)	, 12(	0.00)	, 878(	0.00)	,
870(	0.00)											,
569(	0.30)	, 792(	0.00)	, 794(	0.00)							,
22(	0.10)											,
321(	0.20)	, 355(	0.00)	, 367(	0.00)	, 368(	0.40)	, 384(	0.00)	, 385(	0.40)	,
401(	0.00)	, 429(	0.80)	, 467(	0.00)	, 834(	0.00)	, 926(	0.00)	, 1008(	0.28)	,

FISTULARIIDAE

Fistularia petimba

22(	0.00)	, 267(	0.00)	, 269(	0.00)							,
125(	1.00)	, 140(	2.60)	, 144(	11.40)	, 147(	0.80)	, 149(	8.70)	, 151(	0.88)	,
157(	8.40)	, 160(	1.00)	, 161(	3.30)	, 163(	1.60)	, 168(	2.40)	, 170(	2.40)	,
171(	6.80)	, 173(	8.00)	, 176(	1.00)	, 177(	0.40)	, 180(	1.20)	, 181(	0.00)	,
184(	3.60)	, 187(	0.20)	, 194(	14.88)	, 195(	3.50)	, 196(	3.90)	, 198(	1.80)	,

Fistularia petimba (cont.)

	224	(0.40)	, 266	(1.20)	, 350	(0.40)	, 399	(0.50)	, 410	(0.70)	, 456	(4.80)	,
	458	(4.80)	, 463	(0.43)	, 471	(4.20)	, 477	(2.40)	, 478	(2.40)	, 482	(28.35)	,
	483	(6.40)	, 486	(4.80)	, 488	(2.16)	, 490	(4.80)	, 492	(2.10)	, 494	(0.30)	,
	495	(7.20)	, 496	(3.00)	, 499	(1.80)	, 503	(0.60)	, 504	(2.60)	, 505	(1.80)	,
	506	(0.60)	, 507	(1.38)	, 508	(0.60)	, 509	(1.00)	, 511	(4.80)	, 512	(1.50)	,
	513	(1.20)	, 515	(3.84)	, 517	(1.20)	, 518	(1.20)	, 519	(0.60)	, 520	(0.20)	,
	530	(2.60)	, 555	(1.40)	, 563	(1.00)	, 564	(4.36)	, 571	(0.80)	, 574	(0.44)	,
	575	(2.80)	, 584	(1.60)	, 585	(0.30)	, 586	(3.20)	, 591	(0.65)	, 592	(4.00)	,
	602	(0.50)	, 605	(1.00)	, 606	(0.20)	, 628	(0.90)	, 630	(0.60)	, 660	(0.20)	,
	663	(1.00)	, 678	(0.15)	, 696	(1.40)	, 736	(1.00)	, 737	(0.50)	, 744	(1.00)	,
	749	(1.60)	, 762	(0.70)	, 763	(1.33)	, 764	(2.80)	, 765	(3.60)	, 769	(4.20)	,
	771	(3.24)	, 776	(2.40)	, 777	(0.10)	, 784	(6.00)	, 785	(0.90)	, 786	(3.00)	,
	792	(1.20)	, 801	(0.90)	, 803	(0.40)	, 804	(7.40)	, 805	(7.60)	, 806	(1.80)	,
	807	(5.40)	, 813	(0.60)	, 814	(0.60)	, 815	(0.50)	, 818	(0.60)	, 824	(1.20)	,
	825	(1.44)	, 826	(0.30)	, 827	(1.20)	, 828	(0.30)	, 834	(0.30)	, 835	(0.40)	,
	836	(5.85)	, 863	(0.80)	, 865	(1.40)	, 866	(1.80)	, 877	(1.60)	, 886	(2.20)	,
	887	(0.10)	, 899	(7.80)	, 905	(0.80)	, 931	(0.44)	, 958	(0.40)	, 977	(0.60)	,
	978	(1.20)	, 981	(3.20)	, 990	(0.70)	, 1009	(0.30)	, 1033	(0.40)	, 1080	(7.83)	,
	1095	(1.90)	, 1100	(12.40)	, 1104	(1.10)	, 1106	(5.20)	, 1107	(5.00)	, 1116	(0.90)	,
	1117	(10.00)	, 1121	(0.95)	, 1122	(0.00)	, 1123	(1.20)	, 1125	(2.40)	, 1126	(3.00)	,
	1127	(2.00)	, 1132	(7.00)	, 1133	(19.00)	, 1134	(2.70)	, 1137	(7.00)	, 1139	(5.00)	,
	1144	(0.60)	, 1152	(1.80)	, 1154	(1.95)	, 1155	(1.00)	, 1159	(1.20)	, 1160	(0.36)	,
	1186	(1.60)	, 1190	(1.50)	, 1195	(0.30)	, 1199	(0.36)	, 1200	(1.80)	, 1201	(1.60)	,
	1206	(0.10)	, 1209	(0.16)	, 1210	(0.60)							
Fistularia tabacaria	149	(1.20)	, 161	(5.20)	, 163	(13.60)	, 174	(0.00)	, 178	(0.00)	, 182	(2.00)	,
	234	(3.20)	, 256	(0.00)	, 267	(0.40)	, 288	(0.20)	, 477	(0.24)	, 478	(2.64)	,
	492	(1.34)	, 504	(4.00)	, 506	(1.40)	, 519	(0.20)	, 537	(0.44)	, 565	(1.60)	,
	569	(0.60)	, 585	(2.20)	, 883	(0.60)	, 884	(1.20)	, 888	(0.30)	, 900	(6.70)	,
	1081	(2.40)	, 1099	(0.20)	, 1100	(1.60)	, 1124	(3.00)	, 1127	(2.90)	, 1154	(1.80)	,
	1157	(1.20)	, 1196	(1.80)	, 1197	(0.42)	, 1201	(2.20)					
JUVENILE FISHES	64	(0.00)	, 440	(7.00)	, 735	(0.40)	, 781	(0.00)					
Fish larvae	59	(0.00)	, 67	(0.00)	, 165	(0.00)	, 445	(23.00)	, 903	(2.00)			
Fish small non. comm.	1	(24.00)	, 775	(2.00)	, 814	(12.00)	, 815	(7.60)	, 1173	(0.00)			
GADIDAE	392	(0.80)											
GATROPODS	1193	(32.50)											
Cypraea sp	82	(0.50)											
GEMPYLIDAE	568	(2.00)	, 594	(1.04)	, 814	(2.40)	, 815	(1.00)					
Gempylus serpens	419	(1.70)											
Nealotus tripes	114	(7.20)	, 187	(9.00)	, 189	(0.36)	, 199	(0.00)	, 392	(0.00)	, 395	(0.30)	,
	397	(0.60)	, 416	(0.20)	, 418	(1.64)	, 516	(0.60)	, 524	(0.30)	, 525	(4.11)	,
	526	(0.75)	, 576	(0.00)	, 577	(2.00)	, 593	(6.40)	, 594	(2.61)	, 781	(0.00)	,
	791	(1.20)	, 800	(0.00)	, 803	(1.60)	, 808	(0.17)	, 809	(3.00)	, 812	(0.30)	,
	814	(0.90)	, 822	(0.45)	, 892	(0.40)	, 899	(4.20)	, 1042	(3.75)	, 107	(0.60)	,
	1092	(0.14)	, 1094	(1.60)	, 1143	(0.75)							
Neopinnula orientalis	127	(8.00)	, 145	(0.60)	, 175	(13.20)	, 186	(0.60)	, 217	(0.40)	, 1094	(4.80)	,
	1118	(7.20)	, 1129	(1.20)	, 1136	(1.80)	, 1135	(2.40)	, 1143	(1.35)	, 107	(1.50)	,
	115	(0.00)	, 188	(0.40)	, 192	(3.36)	, 391	(0.00)	, 393	(1.76)	, 396	(0.60)	,
	1112	(0.00)	, 781	(0.20)	, 139	(9.00)	, 164	(0.80)	, 185	(0.42)	, 191	(0.70)	,
	218	(0.60)	, 200	(0.67)	, 278	(0.00)	, 267	(5.60)					
Prometichthys prometheus	593	(0.80)	, 685	(0.60)	, 702	(0.00)	, 742	(2.40)	, 780	(4.50)	, 878	(8.33)	,
	1041	(0.25)	, 1042	(3.00)	, 1043	(1.40)	, 1118	(1.20)	, 1119	(2.40)			
GERREIDAE	118	(0.00)											
Diapterus rhombeus	47	(112.60)	, 51	(1.07)	, 90	(0.80)	, 134	(14.00)	, 150	(6.24)	, 167	(1.02)	,

Diapterus rhombeus (cont.)

220(	0.60)	, 289(	0.00)	, 292(	2.00)	, 293(	28.00)	, 294(	0.00)	, 295(	14.00)	,
354(	32.00)	, 355(	0.00)	, 357(	10.00)	, 376(	0.10)	, 380(	0.00)	, 388(	0.80)	,
403(	0.40)	, 404(	3.20)	, 424(	0.10)	, 427(	2.40)	, 434(	2.80)	, 435(	276.00)	,
438(	4.20)	, 436(	0.50)	, 439(	27.20)	, 440(	1.60)	, 441(	45.00)	, 442(	10.80)	,
443(	120.00)	, 444(	1.60)	, 451(	5.60)	, 452(	4.80)	, 485(	461.60)	, 538(	19.20)	,
539(	1.00)	, 540(	5.60)	, 546(	7.20)	, 560(	0.30)	, 566(	19.60)	, 595(	0.00)	,
607(	1.00)	, 655(	18.00)	, 658(	1.40)	, 664(	0.40)	, 665(	3.30)	, 666(	81.00)	,
667(	0.40)	, 669(	0.80)	, 670(	6.80)	, 676(	5.20)	, 692(	0.10)	, 701(	1.60)	,
705(	0.80)	, 706(	3.40)	, 707(	22.40)	, 708(	32.00)	, 722(	0.00)	, 724(	4.60)	,
754(	0.20)	, 770(	123.20)	, 816(	22.50)	, 837(	1.20)	, 845(	0.60)	, 847(	0.24)	,
848(	1.20)	, 850(	6.00)	, 851(	36.30)	, 906(	0.20)	, 989(	0.16)	, 992(	0.12)	,
1019(	10.20)	, 1038(	6.00)	, 1039(	8.00)	, 1059(	1.80)	, 1062(	0.50)	, 1145(	32.47)	,
1146(	0.30)	, 1165(	0.74)	, 1169(	16.00)	, 1170(	2.00)	, 1172(	0.30)	, 1180(	0.00)	,
1182(	1.04)	, 1182(	0.21)	, 1187(	1.10)							,

Diapterus olisthostomus

52(4.00)	, 152(1.60)	, 860(9.00)	, 1037(36.00)	, 1058(12.00)	, 1062(1.00)	,
1073(5.00)	, 1077(19.56)	, 1140(21.33)							,

Eugerres sp

195(0.10)	, 254(0.10)									,
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Eugerres plumieri

124(37.60)	, 169(0.96)	, 174(2.20)	, 205(29.00)	, 215(1.40)	, 286(5.00)	,
287(2.00)	, 975(20.40)	, 986(1.80)	, 1077(54.00)					,

Eucinostomus sp

59(	0.14)	, 89(	0.00)	, 103(	0.00)	, 110(	0.00)	, 131(	0.00)	, 152(	0.40)	,
196(	3.40)	, 197(	0.90)	, 203(	0.00)	, 205(	31.50)	, 207(	25.20)	, 208(	24.00)	,
216(	128.80)	, 220(	7.60)	, 221(	2.20)	, 226(	0.28)	, 232(	1.20)	, 233(	20.80)	,
243(	0.00)	, 247(	0.00)	, 256(	25.20)	, 258(	22.40)	, 259(	20.00)	, 260(	0.00)	,
264(	0.20)	, 265(	1.20)	, 266(	7.20)	, 267(	0.42)	, 269(	16.80)	, 274(	0.40)	,
279(	28.00)	, 286(	3.00)	, 288(	0.80)	, 289(	2.00)	, 293(	2.60)	, 294(	0.00)	,
295(	4.00)	, 296(	8.00)	, 297(	1.00)	, 298(	0.24)	, 329(	0.30)	, 1004(	0.00)	,
1132(	0.80)	, 1163(	1.80)	, 1165(	0.06)	, 1167(	5.00)	, 1169(	6.40)	, 1170(	7.60)	,
1171(0.02)	, 1174(1.34)									,

Eucinostomus havana

28(1.20)	, 31(2.00)	, 60(2.10)	, 64(5.40)	, 66(0.80)	, 744(0.20)	,
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Eucinostomus melanopterus

81(0.00)	, 90(3.20)	, 135(4.80)	, 173(8.80)	, 174(3.20)	, 195(1.00)	,
861(0.00)											,

Eucinostomus argenteus

213(	0.80)	, 312(	57.00)	, 318(	1.80)	, 319(	2.80)	, 321(	0.60)	, 327(	0.00)	,
330(	82.00)	, 331(	0.40)	, 334(	7.60)	, 335(	0.70)	, 341(	0.00)	, 344(	56.00)	,
345(	2.20)	, 349(	4.40)	, 350(	0.20)	, 361(	4.00)	, 364(	16.00)	, 365(	0.20)	,
366(	16.00)	, 367(	0.40)	, 368(	2.80)	, 380(	0.00)	, 382(	11.40)	, 383(	0.80)	,
384(	0.00)	, 385(	4.00)	, 399(	1.00)	, 400(	7.20)	, 401(	0.80)	, 403(	0.80)	,
404(	1.60)	, 408(	3.00)	, 409(	0.00)	, 415(	1.60)	, 423(	7.00)	, 424(	2.60)	,
425(	2.00)	, 426(	14.40)	, 435(	9.20)	, 439(	1.60)	, 440(	35.00)	, 441(	9.00)	,
442(	21.00)	, 443(	0.00)	, 444(	0.80)	, 445(	1.00)	, 450(	0.00)	, 451(	15.20)	,
452(	3.00)	, 454(	14.40)	, 460(	1.00)	, 461(	1.60)	, 462(	0.40)	, 464(	1.00)	,
466(	6.40)	, 473(	2.70)	, 481(	0.00)	, 484(	5.20)	, 485(	13.00)	, 488(	7.92)	,
492(	6.90)	, 495(	14.40)	, 496(	10.00)	, 512(	1.25)	, 514(	8.00)	, 515(	16.80)	,
518(	12.40)	, 519(	41.00)	, 521(	12.40)	, 527(	3.20)	, 528(	2.00)	, 529(	12.60)	,
530(	3.80)	, 531(	37.60)	, 532(	5.20)	, 533(	1.00)	, 536(	1.80)	, 537(	2.70)	,
538(	3.20)	, 548(	38.40)	, 549(	8.00)	, 556(	0.18)	, 558(	2.40)	, 560(	0.20)	,
562(	19.00)	, 563(	4.00)	, 564(	10.91)	, 565(	28.00)	, 566(	2.60)	, 567(	9.00)	,
569(	4.00)	, 571(	0.80)	, 574(	4.50)	, 575(	15.40)	, 580(	2.06)	, 581(	16.20)	,
582(	0.00)	, 583(	7.00)	, 584(	3.20)	, 587(	9.60)	, 589(	14.40)	, 590(	21.00)	,
591(	10.96)	, 593(	2.60)	, 595(	11.80)	, 597(	1.60)	, 598(	1.00)	, 599(	2.60)	,
600(	21.00)	, 602(	9.00)	, 604(	11.40)	, 605(	17.00)	, 606(	9.40)	, 607(	1.40)	,
609(	7.40)	, 614(	0.00)	, 618(	5.49)	, 619(	1.60)	, 620(	1.40)	, 621(	15.80)	,
622(	25.40)	, 623(	1.60)	, 627(	44.00)	, 629(	12.80)	, 630(	71.20)	, 631(	105.00)	,
634(	140.00)	, 643(	71.00)	, 646(	0.80)	, 648(	1.50)	, 649(	2.60)	, 650(	22.00)	,
651(	49.20)	, 652(	10.00)	, 653(	12.00)	, 656(	0.20)	, 658(	2.80)	, 659(	9.00)	,
662(	0.60)	, 663(	11.50)	, 664(	15.20)	, 667(	1.60)	, 669(	12.40)	, 670(	7.60)	,
671(	0.64)	, 672(	1.20)	, 673(	1.80)	, 677(	0.12)	, 678(	0.90)	, 679(	3.20)	,

Eucinostomus argenteus (cont.)

686(	5.40)	, 688(	1.20)	, 689(	3.20)	, 692(	0.80)	, 693(	0.60)	, 695(	1.20)	,
701(	3.20)	, 705(	7.00)	, 706(	5.60)	, 707(	20.80)	, 708(	11.20)	, 709(	0.00)	,
711(	0.60)	, 712(	2.40)	, 713(	50.00)	, 714(	7.50)	, 722(	11.60)	, 724(	6.20)	,
725(	6.40)	, 726(	0.00)	, 728(	0.80)	, 729(	24.00)	, 750(	2.50)	, 753(	0.20)	,
754(	0.60)	, 762(	5.60)	, 763(	36.33)	, 764(	4.00)	, 769(	27.00)	, 783(	0.10)	,
784(	0.00)	, 786(	0.20)	, 806(	45.00)	, 807(	0.80)	, 814(	19.50)	, 815(	7.50)	,
816(	5.70)	, 817(	5.40)	, 818(	11.00)	, 825(	26.40)	, 827(	0.80)	, 828(	17.40)	,
830(	32.10)	, 833(	1.44)	, 834(	28.80)	, 835(	1.70)	, 836(	16.65)	, 837(	12.00)	,
839(	1.00)	, 840(	5.10)	, 841(	0.60)	, 842(	11.10)	, 843(	1.84)	, 845(	0.90)	,
854(	1.60)	, 856(	1.70)	, 858(	1.76)	, 862(	2.20)	, 863(	7.00)	, 864(	13.40)	,
865(	2.60)	, 866(	11.00)	, 867(	3.00)	, 870(	0.50)	, 872(	1.50)	, 873(	7.20)	,
874(	3.60)	, 875(	0.40)	, 876(	14.00)	, 877(	17.20)	, 881(	9.60)	, 883(	23.00)	,
884(	0.40)	, 885(	19.60)	, 886(	3.00)	, 890(	12.00)	, 894(	8.00)	, 895(	1.20)	,
896(	15.00)	, 902(	20.40)	, 903(	0.10)	, 905(	8.00)	, 904(	16.80)	, 906(	59.60)	,
910(	22.00)	, 911(	0.80)	, 914(	7.80)	, 915(	0.60)	, 916(	0.10)	, 917(	4.00)	,
926(	67.60)	, 938(	23.60)	, 939(	38.40)	, 950(	33.60)	, 951(	18.60)	, 956(	21.20)	,
957(	13.20)	, 958(	12.20)	, 963(	6.00)	, 964(	16.00)	, 964(	0.40)	, 966(	0.20)	,
966(	29.60)	, 973(	4.60)	, 976(	0.50)	, 978(	0.08)	, 981(	27.20)	, 983(	0.68)	,
984(	4.23)	, 989(	6.80)	, 992(	1.40)	, 996(	7.00)	, 1000(	5.20)	, 1004(	0.04)	,
1007(	2.60)	, 1008(	2.00)	, 1009(	0.50)	, 1010(	3.80)	, 1014(	0.60)	, 1019(	2.40)	,
1025(	0.00)	, 1048(	1.60)	, 1055(	16.00)	, 1056(	0.50)	, 1059(	6.20)	, 1062(	63.00)	,
1063(	4.80)	, 1064(	6.60)	, 1068(	0.96)	, 1071(	52.00)	, 1072(	8.40)	, 1073(	16.80)	,
1075(	0.72)	, 1077(	40.00)	, 1082(	4.20)	, 1088(	0.96)	, 1097(	1.20)	, 1104(	14.40)	,
1105(	260.00)	, 1106(	14.40)	, 1128(	0.44)	, 1133(	0.20)	, 1138(	13.00)	, 1139(	50.00)	,
1146(	25.90)	, 1148(	6.66)	, 1152(	3.60)	, 1153(	0.60)	, 1154(	3.00)	, 1156(	10.60)	,
1157(	1.00)	, 1158(	0.80)	, 1160(	21.00)	, 1161(	0.20)	, 1168(	0.10)	, 1174(	13.40)	,
1175(	0.05)	, 1176(	6.36)	, 1177(	5.60)	, 1178(	0.16)	, 1184(	64.00)	, 1185(	32.00)	,
1186(	4.50)	, 1187(	0.00)	, 1189(	42.50)	, 1190(	32.70)	, 1191(	10.08)	, 1192(	29.00)	,
1196(	0.60)	, 1197(	2.80)	, 1199(	18.00)	, 1200(	15.00)	, 1201(	3.20)	, 1202(	7.70)	,
1205(	3.00)	, 1206(	2.40)	, 1207(	29.20)	, 1208(	8.00)	, 1209(	2.00)			
<i>Eucinostomus gula</i>	8(0.20)	, 37(0.00)	, 142(5.00)	, 150(5.20)	, 170(0.80)	, 172(0.40)	,
	184(19.20)	, 231(28.40)	, 277(9.60)	, 285(1.00)	, 426(2.40)	, 461(3.20)	,
	541(4.59)	, 547(0.00)	, 559(2.20)	, 715(0.10)	, 754(0.40)	, 771(0.50)	,
	805(0.80)	, 921(0.20)	, 1107(5.40)	, 34(1.60)	, 148(0.00)	, 171(0.20)	,
	230(3.20)	, 282(0.00)	, 429(3.20)	, 543(4.00)	, 628(54.00)	, 770(0.80)	,
	860(0.50)	, 125(0.00)	, 183(0.70)	, 287(2.00)	, 558(0.60)	, 804(2.80)	,
	161(6.44)	, 485(13.00)	, 932(2.60)	, 234(2.12)	, 737(3.40)	, 935(0.30)	,
	937(13.80)	, 949(22.30)	, 959(16.80)	, 989(5.00)	, 936(14.18)	, 955(0.20)	,
	939(0.40)	, 972(8.20)	, 992(2.20)	, 997(16.00)	, 1008(0.60)	, 1014(0.80)	,
	1028(0.14)	, 996(1.00)	, 1009(1.60)	, 1004(0.04)	, 1022(0.60)	, 1031(6.00)	,
	1046(0.04)	, 1052(31.50)	, 1050(0.60)	, 1082(2.10)	, 1038(9.00)	, 1053(1.50)	,
	1051(7.20)	, 1067(0.28)	, 1133(0.10)	, 1140(18.67)	, 1144(13.50)	, 1145(46.59)	,
	1149(48.60)	, 1162(0.89)	, 1163(0.50)	, 1172(0.04)					
<i>Gerres cinereus</i>	1140(4.00)											
<i>Ulaema iefroyi</i>	5(0.40)											
GIBBERICHTHYOAE													
<i>Gibberichthys pumilus</i>	1040(0.20)	, 1045(0.20)									
GUBIIDAE													
<i>Bollmannia</i> sp.	81(0.00)	, 82(0.00)	, 260(0.00)							
	169(0.00)	, 1174(0.00)									
GONOSTOMATIDAE													
	146(0.00)	, 218(0.00)	, 800(15.00)	, 869(0.20)	, 879(0.80)	, 924(7.00)	,
	925(0.00)	, 1011(1.20)									
<i>Diplophos</i> sp.	107(1.50)											
<i>Diplophos maderensis</i>	391(0.10)	, 392(0.60)	, 396(0.30)	, 397(9.00)	, 742(0.24)	, 1040(0.60)	,
	1041(0.87)	, 1043(2.00)	, 1101(0.00)							

ISOPODS	390 (20.47) , 392 (1.90) , 395 (6.80) , 396 (3.00) , 397 (5.70) , 398 (2.10) , 568 (1.20) , 613 (5.70) , 682 (1.02) , 683 (4.50)
<i>Bathynomus giganteus</i>	115 (4.00) , 119 (0.00) , 417 (5.60) , 418 (11.78) , 420 (2.50) , 421 (7.33) , 422 (9.00) , 457 (0.60) , 612 (2.30) , 684 (6.90) , 685 (16.60) , 702 (5.60) , 703 (1.00) , 743 (0.75) , 790 (5.50) , 796 (23.60) , 800 (9.00) , 810 (0.40) , 811 (18.00) , 822 (3.90) , 924 (4.20) , 925 (2.40) , 926 (1.60) , 980 (5.00) , 1011 (4.80) , 1012 (3.30) , 1040 (4.00) , 1041 (2.00) , 1042 (4.00) , 1043 (3.00) , 1044 (3.00) , 1045 (5.80) , 1092 (4.20) , 1102 (4.20) , 1103 (3.80) , 1119 (0.65) , 1120 (18.00) , 1129 (16.56) , 1142 (12.00) , 1143 (1.80) , 1151 (3.00)
JELAOO	
JELLYFISH	64 (0.00) , 70 (0.00) , 74 (0.00) , 76 (0.00) , 78 (0.00) , 79 (0.00) , 83 (0.00) , 84 (0.00) , 87 (0.00) , 99 (0.00) , 670 (180.00) , 671 (385.71) , 747 (0.00)
KYPHOSIDAE	
<i>Kyphosus sectatrix</i>	900 (2.40)
LABRIDAE	316 (0.00) , 399 (0.00) , 474 (1.60) , 562 (0.00) , 605 (0.00) , 936 (0.00) , 1124 (0.36)
<i>Bodianus rufus</i>	161 (113.70) , 629 (3.20) , 649 (0.80)
<i>Clepticus parrai</i>	1122 (0.00)
<i>Decodon puellaris</i>	106 (0.60) , 510 (0.60) , 776 (0.00) , 1079 (1.00) , 1131 (0.30)
<i>Halichoeres bathyphilus</i>	788 (1.40) , 1155 (0.24)
<i>Halichoeres caudalis</i>	1000 (0.16) , 1082 (0.60) , 1176 (0.04)
<i>Hemipteronotus novacula</i>	180 (0.20) , 478 (0.12) , 863 (0.20)
<i>Lachnolaimus maximus</i>	161 (12.40) , 163 (6.60) , 180 (32.40) , 182 (28.00) , 504 (54.60) , 518 (17.10) , 562 (2.40) , 569 (2.00) , 580 (7.20) , 584 (17.00) , 586 (12.80) , 588 (56.00) , 764 (6.60) , 798 (104.00) , 797 (9.00) , 829 (8.00) , 837 (4.00) , 864 (5.50) , 871 (35.40) , 874 (12.00) , 875 (8.40) , 885 (2.00) , 901 (11.80) , 1047 (6.00) , 1081 (2.00) , 1117 (29.60) , 1124 (43.00) , 1138 (15.20) , 1155 (6.30) , 1160 (2.20) , 1204 (8.00) , 1206 (13.60)
LOBSTERS	
GALATHEIDAE	145 (0.00) , 185 (0.20) , 191 (0.00) , 393 (0.00) , 416 (0.00) , 576 (3.00) , 612 (6.30) , 613 (3.30) , 683 (1.80) , 796 (0.00) , 811 (0.30) , 980 (3.10) , 1193 (0.02)
<i>Pleuroncodes</i> sp	139 (0.00)
<i>Munida</i> sp.	1120 (0.15) , 1143 (0.05)
<i>Munida forceps</i>	1093 (5.85) , 1094 (0.00)
<i>Munida longipes</i>	1101 (0.10) , 1119 (0.18) , 1151 (0.02)
<i>Munida valida</i>	1120 (0.09)
<i>Munidopsis</i> sp	1151 (0.02)
<i>Metanephrops binghami</i>	139 (5.80) , 185 (0.95) , 578 (1.50) , 145 (0.25) , 594 (0.13) , 526 (1.50) , 1094 (2.40) , 146 (0.38) , 780 (0.00) , 164 (0.40) , 1143 (0.30) , 200 (0.40) , 1093 (12.29) , 190 (0.40)
<i>Nephropsis</i> sp	418 (0.33) , 420 (0.50) , 422 (0.20) , 1040 (0.50) , 1045 (1.00) , 419 (0.10) , 613 (0.00) , 421 (0.40) , 1044 (2.10) , 1143 (0.45) , 115 (0.10) , 120 (0.00) ,
<i>Nephropsis rosea</i>	1011 (1.40) , 1103 (0.42) , 1194 (0.30) , 684 (0.60) , 685 (0.20)
<i>Nephropsis aculeata</i>	1092 (10.50) , 1093 (1.29) , 1102 (0.00) , 1119 (1.20) , 1142 (10.20) , 1151 (0.18) ,
<i>Nephropsis neglecta</i>	1120 (3.09) , 1130 (0.00)
<i>Acanthocaris caeca</i>	1011 (0.40) , 1012 (0.60) , 1194 (0.50) , 800 (1.00) , 811 (2.25)
LOBNIOO	390 (0.18) , 392 (0.05) , 395 (0.20) , 398 (1.40) , 682 (0.85) , 683 (2.10) , 703 (0.10) , 790 (0.00) , 796 (2.00) , 800 (0.00) , 822 (0.45) , 823 (0.05) , 826 (0.00) , 878 (1.13) , 924 (1.20)

Panulirus argus	83(1.60) , 287(1.60) , 566(4.80) , 582(5.00) , 772(14.00) , 1010(0.80) , 1080(4.30) , 1081(2.50) , 1100(5.20) , 1185(9.00) , 1189(5.00) , 1191(0.50) ,
Puerulus sp	209(0.00)
POLYCHELIDAE	11(0.75) , 391(0.15) , 392(0.60) , 398(0.30) , 417(0.00) , 458(0.00) , 616(12.60) , 742(0.48) , 790(0.30) , 796(1.10) , 800(0.00) , 810(0.75) , 811(0.30)
Polycheles sp.	115(0.60) , 120(0.00) , 702(0.30) , 1143(0.03)
Stereomastis sculpta	421(4.00) , 682(0.85) , 685(0.20) , 703(0.10) , 1011(8.80) , 1040(4.60) , 1042(0.36) , 1044(10.50) , 422(1.80) , 702(1.20) , 1012(4.80) , 1043(1.00) , 684(1.20) , 1041(3.75) , 743(4.50) , 1045(5.00) , 1092(3.15) , 1103(6.30) , 1120(1.35) , 1142(0.00) , 1151(0.13)
SCYLLARIDAE	6(0.00) , 127(0.00) , 662(0.04) , 1080(1.30)
Scyllarides aechinoctialis	900(0.70)
Scyllarides deltoxi	8(1.00) , 333(0.80) , 347(0.80) , 646(0.60) , 951(3.00) , 58(0.40) , 348(2.10) , 334(1.00) , 890(7.50)
Arctides guineensis	54(0.50)
LOPHIIDAE	1151(0.21)
Lophiodes sp.	315(0.40) , 396(7.50) , 416(0.20) , 1135(5.80)
Lophiodes reticulatus	831(0.00) , 1093(6.15) , 1094(9.70)
Lophius gastrophysus	139(5.80) , 199(0.90) , 823(4.00)
LUTJANIDAE	
Etelis sp	164(0.00)
Lutjanus sp	13(1.60) , 94(0.00) , 920(0.00)
Lutjanus synagris	13(11.40) , 25(13.60) , 27(282.40) , 28(0.40) , 39(19.60) , 40(3.20) , 42(0.00) , 47(12.00) , 48(2.40) , 49(8.20) , 50(0.00) , 51(0.27) , 52(16.80) , 60(6.40) , 58(0.80) , 66(7.60) , 68(1.60) , 72(1.20) , 77(0.60) , 87(10.20) , 90(0.40) , 91(1.10) , 94(0.60) , 103(4.50) , 110(0.60) , 118(4.80) , 135(2.20) , 195(45.00) , 196(3.60) , 203(11.20) , 204(1.50) , 205(26.80) , 208(2.20) , 210(20.30) , 213(14.40) , 214(29.00) , 215(15.20) , 216(70.40) , 220(21.60) , 220(0.00) , 221(8.10) , 233(0.20) , 234(9.40) , 245(5.20) , 247(47.60) , 256(1.40) , 259(34.00) , 263(0.00) , 265(6.20) , 266(17.60) , 269(6.20) , 271(13.20) , 272(2.60) , 274(11.20) , 275(15.00) , 276(55.00) , 277(9.80) , 279(4.80) , 282(0.20) , 285(56.00) , 287(5.00) , 288(0.80) , 289(1.00) , 290(9.00) , 291(4.00) , 292(0.80) , 293(2.80) , 295(1.00) , 297(1.40) , 298(0.50) , 306(3.00) , 307(55.40) , 312(38.40) , 316(1.60) , 319(5.60) , 321(4.20) , 322(22.00) , 323(1.00) , 326(0.60) , 327(141.19) , 329(100.80) , 331(24.00) , 335(1.00) , 336(7.20) , 337(1715.00) , 340(0.60) , 342(30.00) , 344(9.60) , 349(6.40) , 350(4.60) , 352(0.40) , 361(0.40) , 364(22.40) , 366(16.00) , 400(0.30) , 415(6.90) , 424(1.00) , 425(14.00) , 426(235.80) , 427(6.00) , 429(2.80) , 430(1.60) , 434(40.00) , 435(87.80) , 438(5.60) , 436(8.50) , 439(19.20) , 440(7.00) , 441(7.60) , 442(18.60) , 442(1.60) , 443(16.00) , 445(3.00) , 450(0.00) , 451(0.00) , 451(36.00) , 452(22.80) , 462(0.40) , 466(2.40) , 469(14.00) , 478(1.20) , 481(1.00) , 509(0.30) , 512(6.25) , 518(2.00) , 520(17.00) , 521(44.80) , 522(5.00) , 527(7.60) , 528(9.60) , 529(44.60) , 530(11.40) , 531(6.80) , 532(24.00) , 533(3.60) , 536(1.40) , 537(9.90) , 538(4.40) , 540(13.60) , 542(13.80) , 545(1.60) , 547(3.43) , 552(3.60) , 553(4.00) , 554(50.00) , 557(10.60) , 558(2.40) , 562(9.40) , 563(6.60) , 564(60.00) , 565(28.80) , 567(7.80) , 569(19.00) , 570(2.00) , 571(16.00) , 574(64.00) , 575(44.00) , 581(14.00) , 582(78.00) , 589(1.00) , 590(7.00) , 591(11.48) , 593(28.00) , 595(1.80) , 597(0.00) , 599(17.00) , 600(14.00) , 601(2.47) , 602(14.80) , 604(0.80) , 605(11.00) , 606(1.40) , 607(4.40) , 608(10.15) , 609(10.00) , 621(1.80) , 622(12.60) , 623(320.40) , 626(8.00) , 627(1.60) , 628(2.40) , 629(16.00) , 629(10.00) , 630(1.20) , 631(80.00) , 632(25.00) , 634(2.00) , 635(31.00) , 643(3.60) , 645(0.40) , 648(0.60) , 650(10.00) ,

Lutjanus synagris (cont.)

651(	12.60)	, 658(	12.20)	, 659(	60.00)	, 663(	2.00)	, 665(	6.00)	, 669(	6.80)	,
670(	48.00)	, 679(	4.80)	, 692(	0.20)	, 699(	49.00)	, 701(	38.00)	, 705(	28.00)	,
706(	17.00)	, 707(	20.00)	, 708(	2.20)	, 709(	1.80)	, 713(	3.00)	, 719(	3.00)	,
719(	2.00)	, 720(	7.00)	, 722(	28.00)	, 722(	4.00)	, 723(	4.80)	, 724(	16.00)	,
725(	8.00)	, 729(	7.00)	, 731(	0.80)	, 770(	4.00)	, 814(	7.20)	, 815(	7.80)	,
816(	23.78)	, 817(	16.00)	, 818(	7.00)	, 821(	1.80)	, 825(	52.80)	, 826(	2.10)	,
827(	4.00)	, 828(	35.00)	, 830(	13.00)	, 834(	1.00)	, 836(	18.63)	, 837(	28.00)	,
840(	2.10)	, 845(	2.80)	, 847(	10.44)	, 848(	4.00)	, 849(	3.40)	, 850(	6.20)	,
851(	3.00)	, 858(	3.52)	, 862(	15.20)	, 863(	45.60)	, 864(	8.00)	, 865(	2.00)	,
866(	7.00)	, 870(	8.00)	, 871(	9.60)	, 872(	1.40)	, 872(	0.60)	, 873(	3.00)	,
874(	6.00)	, 875(	30.40)	, 876(	10.50)	, 877(	2.80)	, 881(	13.40)	, 883(	0.30)	,
884(	3.60)	, 895(	2.60)	, 896(	56.00)	, 902(	28.80)	, 903(	0.00)	, 905(	3.80)	,
904(	11.80)	, 906(	28.80)	, 910(	0.40)	, 911(	2.60)	, 915(	1.20)	, 921(	2.00)	,
926(	145.60)	, 927(	402.20)	, 928(	52.80)	, 938(	6.00)	, 939(	4.40)	, 940(	52.40)	,
942(	112.00)	, 943(	4.00)	, 943(	0.02)	, 949(	14.80)	, 950(	28.80)	, 951(	31.60)	,
953(	7.80)	, 957(	2.40)	, 959(	12.00)	, 960(	6.67)	, 962(	343.50)	, 964(	3.40)	,
964(	1.92)	, 966(	2.80)	, 968(	1.20)	, 969(	19.20)	, 971(	0.20)	, 972(	33.80)	,
973(	2.20)	, 974(	0.34)	, 976(	0.06)	, 977(	0.30)	, 981(	14.40)	, 983(	0.44)	,
984(	0.58)	, 988(	7.20)	, 989(	1.20)	, 990(	3.60)	, 992(	0.80)	, 996(	1.00)	,
997(	7.80)	, 1000(	7.40)	, 1001(	0.70)	, 1004(	1.00)	, 1007(	0.40)	, 1008(	1.24)	,
1014(	1.00)	, 1017(	1.20)	, 1020(	0.70)	, 1022(	4.80)	, 1031(	0.60)	, 1035(	0.40)	,
1038(	22.80)	, 1039(	11.00)	, 1046(	2.30)	, 1047(	12.00)	, 1049(	2.40)	, 1051(	14.00)	,
1052(	7.00)	, 1053(	4.40)	, 1050(	1.50)	, 1055(	0.40)	, 1056(	9.40)	, 1057(	44.40)	,
1058(	2.90)	, 1059(	14.00)	, 1062(	4.60)	, 1063(	0.20)	, 1063(	0.48)	, 1064(	1.00)	,
1067(	26.60)	, 1068(	8.00)	, 1069(	3.00)	, 1071(	16.20)	, 1074(	3.00)	, 1091(	0.70)	,
1138(	71.00)	, 1138(	40.00)	, 1139(	13.20)	, 1140(	43.50)	, 1144(	15.40)	, 1145(	16.94)	,
1146(	27.80)	, 1148(	30.40)	, 1149(	29.00)	, 1152(	4.20)	, 1154(	1.35)	, 1156(	0.60)	,
1160(	3.40)	, 1163(	5.40)	, 1165(	10.40)	, 1168(	0.06)	, 1169(	0.10)	, 1170(	11.00)	,
1171(	0.74)	, 1172(	12.50)	, 1174(	0.40)	, 1176(	1.90)	, 1178(	6.90)	, 1179(	6.00)	,
1183(	0.60)	, 1184(	22.00)	, 1186(	3.50)	, 1187(	18.00)	, 1188(	16.40)	, 1189(	21.00)	,
1190(	68.00)	, 1191(	17.60)	, 1192(	0.00)	, 1197(	889.00)	, 1198(	32.20)	, 1199(	6.00)	,
1201(	0.10)	, 1202(	15.00)	, 1205(	0.16)	, 1207(	2.80)	, 1208(	3.20)	, 1210(	28.60)	,

Lutjanus analis

17(	14.00)	, 40(	8.80)	, 56(	19.20)	, 58(	15.00)	, 66(	64.00)	, 113(	61.60)	,
126(	11.40)	, 149(	182.40)	, 163(	32.00)	, 170(	12.20)	, 171(	20.00)	, 173(	11.60)	,
176(	2.60)	, 177(	19.00)	, 182(	29.80)	, 195(	17.60)	, 205(	3.20)	, 207(	4.00)	,
210(	45.60)	, 213(	47.20)	, 214(	19.60)	, 220(	2.20)	, 225(	17.80)	, 259(	18.00)	,
266(	4.20)	, 271(	60.00)	, 272(	35.60)	, 274(	22.20)	, 276(	8.40)	, 282(	89.20)	,
285(	73.00)	, 290(	10.80)	, 318(	19.60)	, 334(	18.00)	, 350(	4.00)	, 435(	2.00)	,
462(	3.00)	, 471(	88.00)	, 474(	2.40)	, 479(	20.40)	, 508(	15.60)	, 519(	12.40)	,
520(	64.00)	, 521(	2.80)	, 522(	49.00)	, 523(	75.64)	, 527(	38.80)	, 528(	9.80)	,
529(	21.40)	, 530(	27.00)	, 531(	22.40)	, 532(	36.00)	, 533(	104.00)	, 536(	5.40)	,
537(	2.70)	, 554(	6.00)	, 557(	29.60)	, 562(	24.40)	, 563(	18.00)	, 564(	70.91)	,
566(	29.60)	, 567(	12.00)	, 569(	26.00)	, 571(	50.20)	, 574(	16.00)	, 575(	14.00)	,
580(	13.71)	, 581(	33.60)	, 582(	48.00)	, 584(	24.00)	, 586(	40.00)	, 588(	70.00)	,
589(	13.60)	, 591(	11.48)	, 592(	4.80)	, 598(	15.60)	, 599(	30.60)	, 600(	10.00)	,
602(	5.60)	, 605(	4.00)	, 608(	19.38)	, 659(	660.00)	, 696(	11.00)	, 698(	10.70)	,
746(	46.80)	, 764(	4.50)	, 772(	24.00)	, 786(	16.00)	, 798(	10.40)	, 801(	27.00)	,
804(	68.00)	, 806(	40.00)	, 807(	36.60)	, 815(	12.00)	, 816(	13.95)	, 817(	17.40)	,
818(	12.40)	, 825(	2.40)	, 827(	17.00)	, 828(	29.40)	, 829(	37.60)	, 830(	28.80)	,
836(	111.90)	, 837(	26.00)	, 840(	19.40)	, 854(	13.70)	, 856(	1.70)	, 858(	5.00)	,
861(	6.30)	, 862(	12.60)	, 863(	4.40)	, 864(	53.00)	, 871(	7.80)	, 872(	35.60)	,
875(	23.60)	, 884(	1.70)	, 887(	12.80)	, 888(	12.80)	, 894(	28.80)	, 895(	20.00)	,
896(	36.20)	, 900(	13.80)	, 901(	25.40)	, 902(	10.32)	, 903(	4.00)	, 906(	7.00)	,
906(	0.00)	, 907(	17.60)	, 910(	10.00)	, 952(	17.00)	, 990(	13.20)	, 1000(	27.00)	,
1047(	141.15)	, 1049(	19.68)	, 1081(	17.80)	, 1100(	166.40)	, 1105(	0.00)	, 1126(	13.40)	,
1127(	7.00)	, 1132(	12.40)	, 1133(	14.20)	, 1144(	14.60)	, 1145(	20.12)	, 1146(	37.70)	,

Lutjanus analis (cont.)

1148(	66.80)	, 1149(	25.00)	, 1152(	6.60)	, 1153(	4.40)	, 1154(	137.70)	, 1155(	6.30)	,
1156(	6.80)	, 1157(	1.60)	, 1160(	10.00)	, 1162(	0.78)	, 1186(	36.80)	, 1189(	57.20)	,
1190(	11.60)	, 1198(	52.40)	, 1201(	35.00)	, 1202(	11.60)	, 1204(	44.80)	, 1206(	92.80)	,
1207(	24.00)	, 1210(	3.60)									

Lutjanus griseus

40(	123.00)	, 52(	1.40)	, 88(	0.60)	, 118(	2.20)	, 205(	2.50)	, 207(	3.40)	,
220(	8.40)	, 221(	1.20)	, 234(	4.00)	, 286(	1.00)	, 504(	18.70)	, 505(	19.20)	,
521(	22.60)	, 527(	49.00)	, 574(	6.20)	, 583(	13.00)	, 598(	9.00)	, 623(	42.00)	,
629(	5.20)	, 651(	2.40)	, 651(	18.20)	, 764(	18.80)	, 786(	23.80)	, 806(	42.00)	,
830(	19.60)	, 858(	1.00)	, 884(	2.80)	, 901(	14.40)	, 950(	13.00)	, 981(	14.00)	,
1022(	1.60)	, 1081(	6.00)	, 1100(	19.20)	, 1148(	33.20)	, 1178(	9.60)	, 1184(	4.00)	,
1202(19.00)	, 1206(20.00)									

Lutjanus jocu

118(3.00)	, 316(20.00)	, 927(7.20)	, 972(0.80)	, 1047(18.00)			
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Lutjanus buccanella

177(102.00)	, 180(11.40)	, 195(5.00)	, 213(0.40)	, 215(4.20)	, 216(87.20)	,
221(22.20)	, 290(22.20)	, 478(0.72)	, 500(3.36)	, 523(1.50)	, 598(1.20)	,
818(	0.50)	, 901(	2.80)	, 907(	0.60)	, 1100(	1.60)	, 1124(	4.20)	, 1133(	0.06)	,
1152(	0.60)	, 1154(	0.00)	, 1200(	8.00)	, 1202(	0.42)	, 1204(	0.32)	, 1210(	0.60)	,

Lutjanus vivanus

195(	1.60)	, 196(	0.30)	, 197(	0.90)	, 213(	0.00)	, 271(	13.00)	, 276(	2.40)	,
285(	2.80)	, 291(	5.60)	, 318(	106.00)	, 517(	59.00)	, 523(	7.71)	, 523(	8.14)	,
532(	1.00)	, 533(	12.60)	, 592(	13.00)	, 593(	1.80)	, 596(	4.60)	, 598(	0.80)	,
600(	0.00)	, 602(	0.80)	, 617(	4.20)	, 736(	12.00)	, 771(	3.00)	, 797(	1.74)	,
801(	1.40)	, 804(	0.30)	, 807(	0.40)	, 813(	80.60)	, 816(	0.00)	, 821(	1.35)	,
825(	1.20)	, 828(	1.60)	, 874(	5.70)	, 894(	1.40)	, 902(	0.00)	, 905(	0.70)	,
908(	0.20)	, 910(	0.00)	, 1028(	5.08)	, 1114(	22.94)	, 1121(	31.58)	, 1124(	10.20)	,
1127(	0.82)	, 1131(	25.80)	, 1132(	0.08)	, 1133(	0.10)	, 1137(	0.40)	, 1152(	2.00)	,
1154(	1.35)	, 1186(	0.10)	, 1189(	0.10)	, 1191(	9.72)	, 1192(	0.00)	, 1199(	33.60)	,
1206(0.02)	, 1209(2.00)	, 1210(5.60)							

Lutjanus apodus

319(13.80)	, 509(102.40)	, 648(30.60)	, 950(8.40)					
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Lutjanus mahogoni

336(1.20)											
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Lutjanus cyanopterus

1026(54.40)											
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Lutjanus purpureus

8(50.00)	, 10(14.40)	, 18(19.43)	, 21(33.80)	, 32(115.60)	, 34(12.80)	,
52(14.00)	, 54(3.10)	, 57(81.00)	, 64(0.40)	, 67(1.40)	, 80(5.60)	,
82(	9.20)	, 9(	34.60)	, 20(	11.20)	, 33(	127.20)	, 53(	18.20)	, 58(	22.80)	,
72(	1.00)	, 12(	28.20)	, 40(	19.00)	, 66(	42.00)	, 31(	22.00)	, 81(	1.20)	,
56(	16.00)	, 89(	0.00)	, 112(	20.00)	, 113(	4.40)	, 143(	4.20)	, 151(	0.60)	,
173(	0.60)	, 179(	12.70)	, 195(	18.40)	, 196(	6.00)	, 205(	0.30)	, 208(	2.80)	,
214(	2.20)	, 216(	0.00)	, 225(	1.20)	, 269(	2.60)	, 274(	1.00)	, 295(	0.00)	,
313(	36.80)	, 316(	4.00)	, 319(	28.60)	, 332(	29.40)	, 347(	0.00)	, 350(	120.00)	,
363(	0.20)	, 366(	18.00)	, 368(	0.40)	, 374(	1.40)	, 377(	0.80)	, 383(	5.60)	,
385(	0.60)	, 400(	0.90)	, 414(	7.00)	, 415(	31.00)	, 424(	5.40)	, 430(	0.80)	,
437(	1.00)	, 440(	11.00)	, 441(	0.00)	, 450(	0.00)	, 452(	0.30)	, 462(	6.60)	,
469(	26.80)	, 505(	6.80)	, 513(	1.90)	, 519(	2.20)	, 522(	7.20)	, 527(	2.40)	,
529(	25.40)	, 533(	9.60)	, 553(	0.50)	, 554(	10.40)	, 90(	15.00)	, 125(	1.20)	,
170(	0.14)	, 184(	1.40)	, 197(	0.90)	, 213(	0.20)	, 221(	0.00)	, 272(	1.10)	,
301(	26.40)	, 318(	26.00)	, 340(	0.10)	, 361(	0.80)	, 367(	0.80)	, 376(	3.80)	,
384(	0.60)	, 408(	6.00)	, 423(	2.70)	, 435(	14.00)	, 441(	4.60)	, 451(	7.60)	,
463(	1.43)	, 512(	127.00)	, 520(	21.60)	, 528(	0.30)	, 536(	3.60)	, 112(	1.20)	,
174(	0.40)	, 207(	0.80)	, 266(	2.00)	, 314(	2.40)	, 349(	24.80)	, 373(	1.40)	,
399(	1.50)	, 425(	12.80)	, 443(	2.40)	, 481(	9.00)	, 523(	2.14)	, 554(	13.20)	,
148(	3.80)	, 215(	2.70)	, 302(	120.60)	, 381(	0.60)	, 438(	0.70)	, 518(	3.80)	,
195(	16.00)	, 364(	731.20)	, 461(	6.00)	, 285(	2.60)	, 532(	5.40)	, 415(	11.80)	,
557(	8.80)	, 564(	13.64)	, 571(	8.00)	, 575(	20.00)	, 586(	45.00)	, 590(	10.00)	,
593(	0.80)	, 596(	17.00)	, 598(	11.00)	, 607(	1.40)	, 617(	155.60)	, 623(	10.00)	,
629(	16.00)	, 630(	0.60)	, 643(	0.00)	, 649(	1.60)	, 650(	15.00)	, 651(	3.00)	,
658(	21.00)	, 663(	10.50)	, 672(	1.20)	, 673(	9.40)	, 686(	6.00)	, 692(	1.60)	,
698(	5.20)	, 706(	1.40)	, 708(	0.20)	, 713(	6.00)	, 721(	1.80)	, 723(	2.40)	,
731(	0.60)	, 746(	12.60)	, 750(	2.00)	, 771(	100.00)	, 804(	0.30)	, 815(	1.60)	,

Lutjanus purpureus (cont.)

818(	6.30)	, 825(	1.92)	, 836(	21.75)	, 862(	7.00)	, 866(	85.80)	, 871(	1.20)	,
874(	152.00)	, 561(	0.50)	, 574(	5.00)	, 589(	12.20)	, 595(	1.20)	, 605(	0.00)	,
618(	6.86)	, 629(	23.40)	, 646(	83.00)	, 650(	24.00)	, 659(	18.00)	, 672(	8.60)	,
686(	10.20)	, 701(	1.00)	, 711(	0.60)	, 722(	1.00)	, 744(	39.00)	, 762(	0.20)	,
805(	3.60)	, 821(	1.95)	, 837(	10.00)	, 870(	6.20)	, 569(	22.00)	, 591(	2.61)	,
611(	78.00)	, 631(	16.00)	, 652(	0.20)	, 678(	0.45)	, 707(	4.80)	, 725(	1.60)	,
783(	0.30)	, 828(	8.60)	, 873(	25.80)	, 580(	5.66)	, 623(	0.60)	, 670(	26.00)	,
720(	3.20)	, 816(	0.45)	, 597(	0.10)	, 696(	3.60)	, 865(	3.00)	, 649(	2.00)	,
749(	12.00)	, 875(	4.00)	, 881(	10.80)	, 893(	18.00)	, 902(	0.00)	, 905(	12.80)	,
907(	17.80)	, 922(	8.00)	, 926(	60.00)	, 929(	8.20)	, 933(	13.60)	, 938(	0.40)	,
950(	12.40)	, 952(	8.40)	, 954(	19.85)	, 957(	8.90)	, 976(	0.54)	, 979(	32.20)	,
988(	0.08)	, 990(	0.40)	, 997(	15.00)	, 1001(	1.60)	, 1008(	0.88)	, 1014(	3.60)	,
1020(	11.60)	, 1022(	9.00)	, 1025(	11.00)	, 1027(	19.20)	, 1031(	0.80)	, 1035(	1.60)	,
1047(	9.90)	, 1051(	2.80)	, 1050(	11.70)	, 1056(	4.70)	, 1062(	0.52)	, 1067(	0.30)	,
1071(	2.70)	, 1073(	1.20)	, 1091(	8.40)	, 876(	14.20)	, 894(	14.00)	, 906(	0.10)	,
923(	57.00)	, 930(	7.13)	, 949(	0.28)	, 953(	10.00)	, 955(	13.40)	, 981(	22.20)	,
992(	0.20)	, 1004(	2.40)	, 1017(	11.20)	, 1024(	14.20)	, 1028(	13.85)	, 1046(	1.20)	,
1052(	0.70)	, 1057(	0.16)	, 1068(	0.40)	, 1074(	10.00)	, 886(	1.20)	, 921(	0.02)	,
936(	1.45)	, 955(	28.40)	, 989(	0.44)	, 1010(	12.20)	, 1026(	10.00)	, 1048(	1.60)	,
1062(	0.90)	, 903(	0.60)	, 951(	34.20)	, 1000(	22.00)	, 1034(	7.80)	, 1072(	0.16)	,
927(	15.00)	, 1021(	1.60)	, 977(	0.36)	, 1050(	3.90)	, 1096(	0.80)	, 1099(	0.00)	,
1105(	0.00)	, 1114(	28.94)	, 1125(	0.50)	, 1126(	16.00)	, 1132(	0.10)	, 1133(	0.10)	,
1137(	5.00)	, 1140(	3.00)	, 1139(	6.00)	, 1144(	9.60)	, 1145(	0.25)	, 1146(	3.30)	,
1148(	5.60)	, 1149(	4.40)	, 1154(	1.65)	, 1156(	1.40)	, 1183(	0.12)	, 1183(	0.00)	,
1186(	1.70)	, 1190(	23.20)	, 1191(	0.00)	, 1199(	348.40)	, 1204(	21.60)	, 1206(	23.40)	,
1209(	1.60)	, 1210(	1.90)									,

Ocyurus chrysurus

161(	1.86)	, 163(	5.00)	, 195(	6.80)	, 223(	2.92)	, 259(	19.60)	, 504(	355.20)	,
557(	1.80)	, 566(	2.00)	, 583(	3.20)	, 798(	13.00)	, 837(	1.60)	, 858(	0.80)	,
864(	4.70)	, 866(	0.70)	, 875(	6.00)	, 884(	32.40)	, 901(	25.40)	, 1032(	2.00)	,
1081(	63.40)	, 1100(	71.00)	, 1117(	33.00)	, 1128(	101.40)	, 1154(	0.00)	, 1198(	7.00)	,
1202(	0.70)											,

Pristipomoides macrophthalmus

8(	32.80)	, 9(	1.20)	, 10(	161.00)	, 12(	12.00)	, 17(	73.80)	, 18(	11.00)	,
19(	4.20)	, 22(	0.40)	, 31(	17.60)	, 32(	7.40)	, 33(	31.20)	, 34(	4.80)	,
35(	5.60)	, 36(	0.90)	, 54(	1.00)	, 57(	2.20)	, 66(	0.50)	, 106(	27.00)	,
109(	3.30)	, 110(	2.60)	, 113(	1.10)	, 114(	3.60)	, 122(	0.40)	, 125(	2.20)	,
127(	34.00)	, 138(	8.40)	, 140(	195.50)	, 141(	0.10)	, 143(	2.80)	, 144(	5.80)	,
147(	13.20)	, 157(	77.40)	, 158(	50.00)	, 159(	9.20)	, 160(	50.50)	, 166(	12.00)	,
168(	3.20)	, 170(	2.80)	, 171(	12.60)	, 173(	8.00)	, 174(	6.40)	, 175(	24.90)	,
182(	0.70)	, 183(	5.60)	, 184(	22.20)	, 194(	3.84)	, 197(	0.90)	, 198(	69.60)	,
199(	4.80)	, 200(	2.80)	, 205(	0.00)	, 207(	10.80)	, 196(	0.20)	, 208(	6.60)	,
208(	19.20)	, 209(	0.00)	, 213(	0.60)	, 222(	29.64)	, 223(	0.56)	, 225(	0.40)	,
226(	3.04)	, 227(	0.00)	, 232(	1.20)	, 256(	13.20)	, 259(	0.00)	, 260(	8.00)	,
266(	15.60)	, 267(	11.20)	, 268(	0.28)	, 269(	7.20)	, 271(	0.16)	, 274(	0.40)	,
276(	0.00)	, 277(	9.60)	, 279(	81.60)	, 281(	0.60)	, 288(	0.00)	, 296(	16.00)	,
297(	0.14)	, 301(	1.20)	, 304(	0.30)	, 313(	8.00)	, 315(	12.00)	, 316(	8.40)	,
317(	31.20)	, 318(	1.80)	, 319(	1.40)	, 321(	0.00)	, 302(	1.40)	, 332(	4.50)	,
333(	0.30)	, 346(	5.00)	, 347(	2.20)	, 348(	0.70)	, 349(	4.60)	, 350(	0.20)	,
367(	72.00)	, 368(	21.20)	, 374(	14.00)	, 381(	67.00)	, 382(	75.60)	, 383(	113.60)	,
384(	2.40)	, 385(	0.40)	, 394(	20.60)	, 399(	90.00)	, 400(	9.60)	, 401(	0.40)	,
409(	13.27)	, 410(	77.50)	, 412(	45.60)	, 413(	105.00)	, 414(	34.20)	, 416(	38.80)	,
423(	1.40)	, 424(	0.40)	, 443(	0.00)	, 444(	2.40)	, 456(	259.20)	, 458(	92.40)	,
460(	124.00)	, 461(	13.60)	, 466(	8.00)	, 467(	2.00)	, 468(	26.20)	, 469(	81.00)	,
471(	421.40)	, 473(	135.00)	, 474(	0.00)	, 479(	88.00)	, 480(	403.20)	, 481(	129.60)	,
482(	342.30)	, 483(	209.60)	, 484(	33.80)	, 486(	3.20)	, 490(	43.20)	, 491(	13.30)	,
492(	48.00)	, 494(	25.20)	, 495(	30.00)	, 496(	131.00)	, 499(	121.80)	, 500(	0.96)	,
501(	96.00)	, 502(	2.57)	, 503(	0.50)	, 510(	138.00)	, 511(	28.80)	, 512(	2.50)	,
513(	1.40)	, 514(	4.00)	, 515(	3.60)	, 516(	59.40)	, 518(	6.20)	, 519(	5.00)	,

Pristipomoides macrophthalmus (cont.)

521(	0.40)	, 522(	1.44)	, 525(	11.05)	, 528(	1.00)	, 529(	0.40)	, 530(	0.50)	,
535(	1.40)	, 536(	9.00)	, 537(	9.90)	, 561(	0.00)	, 562(	5.00)	, 563(	10.00)	,
564(	3.27)	, 567(	74.00)	, 569(	7.80)	, 571(	1.60)	, 572(	0.90)	, 573(	18.80)	,
574(	0.74)	, 575(	3.50)	, 576(	1.80)	, 589(	2.40)	, 590(	2.00)	, 591(	5.22)	,
592(	9.80)	, 593(	7.40)	, 593(	2.60)	, 596(	2.40)	, 600(	3.50)	, 601(	21.18)	,
602(	0.10)	, 604(	0.10)	, 605(	1.00)	, 606(	0.10)	, 611(	43.00)	, 614(	5.00)	,
617(	100.20)	, 618(	123.43)	, 619(	16.80)	, 620(	0.40)	, 627(	14.00)	, 628(	0.00)	,
634(	1.50)	, 646(	3.40)	, 647(	12.00)	, 648(	3.00)	, 649(	1.60)	, 650(	1.00)	,
661(	0.20)	, 662(	0.80)	, 663(	2.50)	, 663(	25.50)	, 672(	49.20)	, 673(	1.50)	,
677(	4.00)	, 686(	19.20)	, 696(	2.80)	, 697(	1.30)	, 698(	9.60)	, 712(	3.20)	,
714(	0.00)	, 736(	23.00)	, 737(	6.00)	, 744(	0.00)	, 762(	0.60)	, 763(	18.00)	,
764(	16.00)	, 765(	20.00)	, 769(	18.20)	, 770(	0.40)	, 771(	37.50)	, 772(	18.80)	,
783(	0.40)	, 784(	180.00)	, 785(	61.60)	, 787(	44.00)	, 788(	378.00)	, 789(	7.80)	,
791(	18.00)	, 792(	98.40)	, 793(	0.80)	, 794(	2.50)	, 805(	0.20)	, 806(	5.50)	,
807(	6.00)	, 808(	64.40)	, 814(	42.60)	, 815(	25.00)	, 816(	0.38)	, 817(	18.00)	,
818(	3.20)	, 824(	12.60)	, 825(	2.40)	, 826(	2.40)	, 830(	0.90)	, 831(	10.52)	,
833(	12.24)	, 834(	24.00)	, 835(	3.00)	, 836(	7.20)	, 837(	0.60)	, 839(	1.20)	,
840(	3.90)	, 842(	8.10)	, 843(	9.24)	, 845(	0.30)	, 858(	0.88)	, 865(	1.00)	,
866(	4.00)	, 867(	60.00)	, 870(	0.60)	, 871(	9.00)	, 873(	6.00)	, 874(	3.60)	,
876(	3.40)	, 877(	9.60)	, 881(	4.80)	, 886(	0.60)	, 887(	0.20)	, 896(	1.00)	,
899(	9.00)	, 905(	0.50)	, 906(	0.00)	, 911(	0.40)	, 914(	0.30)	, 922(	6.40)	,
926(	0.00)	, 929(	16.80)	, 930(	4.31)	, 931(	76.00)	, 932(	2.00)	, 933(	3.60)	,
934(	3.20)	, 935(	1.40)	, 936(	3.55)	, 937(	5.10)	, 938(	2.40)	, 939(	2.20)	,
949(	1.80)	, 950(	0.60)	, 951(	6.00)	, 952(	6.30)	, 953(	0.18)	, 954(	15.69)	,
955(	30.00)	, 956(	4.00)	, 957(	0.40)	, 978(	3.60)	, 979(	70.20)	, 981(	19.20)	,
989(	0.16)	, 990(	18.20)	, 1000(	17.20)	, 1001(	0.24)	, 1008(	24.80)	, 1009(	0.60)	,
1010(	25.00)	, 1014(	24.40)	, 1020(	0.00)	, 1021(	0.60)	, 1023(	0.00)	, 1024(	1.60)	,
1025(	0.40)	, 1026(	3.80)	, 1027(	4.40)	, 1031(	0.90)	, 1033(	7.00)	, 1034(	0.60)	,
1079(	30.00)	, 1082(	0.30)	, 1088(	0.92)	, 1090(	12.36)	, 1091(	1.20)	, 1095(	117.60)	,
1096(	53.00)	, 1099(	27.20)	, 1100(	5.52)	, 1104(	43.80)	, 1105(	1.10)	, 1106(	520.20)	,
1113(	27.00)	, 1114(	28.41)	, 1115(	242.00)	, 1116(	5.90)	, 1121(	0.28)	, 1124(	0.12)	,
1128(	0.32)	, 1132(	3.60)	, 1133(	1.60)	, 1134(	18.00)	, 1135(	34.80)	, 1136(	21.00)	,
1137(	1.00)	, 1138(	5.40)	, 1139(	4.00)	, 1144(	5.00)	, 1145(	0.32)	, 1146(	2.00)	,
1148(	31.80)	, 1152(	16.00)	, 1155(	21.74)	, 1156(	1.20)	, 1158(	32.00)	, 1159(	5.60)	,
1160(	7.80)	, 1161(	0.00)	, 1162(	0.04)	, 1176(	6.72)	, 1177(	1.30)	, 1178(	0.38)	,
1183(	0.00)	, 1185(	32.00)	, 1186(	2.90)	, 1189(	4.00)	, 1190(	1.56)	, 1191(	14.04)	,
1192(	0.40)	, 1195(	48.84)	, 1199(	12.00)	, 1200(	9.00)	, 1204(	0.08)	, 1206(	0.04)	,
1208(	3.20)	, 1209(	6.40)	, 1210(	5.00)							,
Pristipomoides freemani												,
19(	1.40)	, 21(	0.20)	, 187(	2.20)	, 188(	0.40)	, 191(	0.40)	, 290(	0.30)	,
923(	1.00)	, 1195(	0.12)									,
Rhomboplites aurorubens												,
8(	54.00)	, 9(	55.00)	, 10(	1.40)	, 12(	8.40)	, 17(	55.20)	, 18(	14.14)	,
19(	5.20)	, 20(	32.20)	, 21(	69.00)	, 22(	0.70)	, 31(	196.00)	, 32(	109.20)	,
33(	5.20)	, 34(	153.60)	, 35(	18.40)	, 36(	1.20)	, 40(	23.20)	, 52(	8.40)	,
53(	4.40)	, 54(	82.00)	, 56(	32.40)	, 57(	41.00)	, 58(	1649.60)	, 66(	79.00)	,
72(	0.40)	, 73(	0.20)	, 80(	6.20)	, 81(	1.00)	, 82(	0.30)	, 90(	4.60)	,
103(	0.00)	, 110(	11.20)	, 112(	9.60)	, 113(	1.00)	, 127(	10.00)	, 143(	4.30)	,
147(	12.40)	, 148(	7.80)	, 148(	2.40)	, 176(	18.20)	, 177(	0.24)	, 178(	0.00)	,
179(	0.40)	, 180(	0.00)	, 183(	0.60)	, 184(	0.80)	, 196(	17.40)	, 197(	0.90)	,
204(	0.50)	, 205(	0.70)	, 207(	18.00)	, 208(	0.60)	, 208(	0.00)	, 213(	12.40)	,
216(	0.00)	, 225(	15.90)	, 226(	18.00)	, 227(	12.60)	, 234(	3.60)	, 254(	0.60)	,
256(	1.80)	, 259(	11.60)	, 259(	0.00)	, 264(	6.00)	, 266(	1.80)	, 266(	0.00)	,
267(	0.56)	, 271(	1.60)	, 272(	1.80)	, 276(	5.20)	, 279(	1.20)	, 282(	10.40)	,
283(	12.00)	, 285(	8.50)	, 288(	7.80)	, 290(	2.40)	, 293(	1.80)	, 296(	3.00)	,
297(	2.90)	, 299(	21.82)	, 301(	12.60)	, 304(	0.30)	, 312(	1.80)	, 313(	106.00)	,
314(	32.16)	, 315(	0.80)	, 316(	161.00)	, 317(	199.20)	, 318(	288.00)	, 319(	63.00)	,
321(	0.20)	, 302(	29.00)	, 331(	2.00)	, 332(	4.65)	, 333(	1.20)	, 334(	18.60)	,
335(	0.60)	, 346(	28.80)	, 347(	0.60)	, 348(	7.70)	, 349(	34.40)	, 350(	5.00)	,

Knombopiites aurorubens (cont.)

364(	152.00)	, 366(	1.60)	, 368(	0.80)	, 373(	1.00)	, 374(	25.40)	, 381(	12.00)	,
382(	8.40)	, 383(	8.00)	, 385(	0.40)	, 399(	1.00)	, 400(	0.30)	, 408(	3.00)	,
409(	17.64)	, 414(	44.60)	, 415(	3.20)	, 423(	1.00)	, 424(	0.30)	, 425(	6.00)	,
426(	25.60)	, 456(	16.00)	, 458(	9.20)	, 460(	15.00)	, 462(	0.40)	, 463(	26.29)	,
467(	28.00)	, 469(	43.20)	, 471(	215.00)	, 473(	1.80)	, 477(	3.36)	, 479(	77.00)	,
481(	38.40)	, 483(	56.00)	, 499(	23.40)	, 500(	5.04)	, 501(	1.50)	, 502(	9.00)	,
505(	123.20)	, 508(	5.60)	, 511(	58.80)	, 512(	1.50)	, 513(	2.80)	, 514(	0.40)	,
515(	0.48)	, 517(	400.00)	, 518(	13.80)	, 519(	10.00)	, 520(	2.00)	, 522(	0.48)	,
523(	18.64)	, 523(	42.86)	, 527(	2.40)	, 528(	1.30)	, 529(	3.00)	, 530(	1.80)	,
532(	4.40)	, 533(	5.40)	, 536(	7.20)	, 537(	1.50)	, 554(	10.40)	, 557(	7.60)	,
562(	22.00)	, 563(	6.80)	, 564(	65.45)	, 567(	67.00)	, 569(	9.80)	, 571(	12.00)	,
574(	14.00)	, 575(	6.40)	, 575(	7.00)	, 580(	61.71)	, 582(	88.00)	, 583(	4.50)	,
584(	40.64)	, 585(	2.00)	, 586(	9.60)	, 587(	0.40)	, 589(	128.00)	, 590(	12.00)	,
591(	17.22)	, 592(	5.80)	, 593(	0.00)	, 595(	3.40)	, 597(	0.20)	, 598(	5.30)	,
599(	5.00)	, 600(	17.50)	, 601(	2.47)	, 602(	2.20)	, 603(	0.60)	, 604(	3.40)	,
605(	4.00)	, 606(	13.40)	, 607(	1.40)	, 611(	0.20)	, 614(	25.60)	, 617(	76.80)	,
618(	61.71)	, 619(	4.40)	, 620(	2.00)	, 621(	1.80)	, 623(	55.20)	, 627(	0.80)	,
628(	1.50)	, 629(	20.00)	, 629(	1.40)	, 644(	0.00)	, 645(	1.00)	, 646(	10.20)	,
647(	4.00)	, 648(	7.00)	, 649(	10.80)	, 650(	22.00)	, 651(	17.40)	, 652(	0.80)	,
658(	6.40)	, 659(	18.00)	, 662(	1.20)	, 663(	18.00)	, 672(	2.00)	, 678(	15.90)	,
686(	19.20)	, 696(	10.80)	, 698(	4.20)	, 712(	6.00)	, 736(	10.20)	, 737(	1.20)	,
744(	7.80)	, 746(	11.80)	, 750(	150.00)	, 769(	23.20)	, 771(	4.74)	, 772(	110.00)	,
773(	0.00)	, 776(	14.80)	, 777(	0.48)	, 784(	1.20)	, 785(	68.80)	, 786(	6.80)	,
787(	18.00)	, 788(	126.00)	, 789(	22.00)	, 791(	4.80)	, 792(	9.00)	, 794(	104.00)	,
795(	0.40)	, 799(	162.40)	, 797(	25.54)	, 801(	4.50)	, 803(	11.60)	, 804(	2.40)	,
805(	0.10)	, 806(	0.00)	, 807(	10.00)	, 808(	0.52)	, 814(	3.00)	, 815(	5.00)	,
816(	2.70)	, 824(	4.64)	, 825(	19.20)	, 828(	15.00)	, 830(	16.90)	, 834(	9.40)	,
836(	15.00)	, 839(	1.40)	, 840(	2.40)	, 842(	3.30)	, 858(	0.88)	, 863(	0.30)	,
864(	13.40)	, 865(	3.60)	, 866(	2.00)	, 870(	1.60)	, 871(	58.20)	, 873(	10.20)	,
874(	4.50)	, 875(	7.00)	, 876(	3.60)	, 877(	16.00)	, 881(	4.00)	, 885(	4.80)	,
886(	21.00)	, 887(	4.60)	, 890(	103.00)	, 891(	13.00)	, 894(	12.40)	, 895(	18.00)	,
896(	64.00)	, 902(	1.44)	, 905(	12.60)	, 904(	12.90)	, 906(	12.60)	, 907(	130.20)	,
908(	5.60)	, 910(	0.60)	, 911(	57.00)	, 914(	0.70)	, 916(	0.20)	, 917(	0.20)	,
921(	9.80)	, 922(	64.00)	, 923(	64.40)	, 926(	7.80)	, 927(	228.40)	, 929(	81.60)	,
930(	29.63)	, 931(	51.20)	, 932(	98.00)	, 933(	350.00)	, 934(	217.60)	, 935(	6.40)	,
936(	10.36)	, 937(	1.20)	, 938(	0.20)	, 939(	1.20)	, 949(	3.08)	, 950(	25.20)	,
951(	7.20)	, 952(	121.10)	, 953(	45.00)	, 954(	13.38)	, 955(	69.00)	, 956(	4.20)	,
957(	15.40)	, 959(	4.32)	, 960(	0.96)	, 963(	0.46)	, 970(	1.26)	, 976(	0.20)	,
978(	5.60)	, 979(	93.60)	, 981(	8.80)	, 990(	2.80)	, 997(	0.50)	, 1000(	18.00)	,
1004(	1.40)	, 1008(	7.40)	, 1010(	39.00)	, 1014(	3.40)	, 1020(	0.50)	, 1021(	0.60)	,
1022(	5.40)	, 1024(	0.80)	, 1025(	0.80)	, 1026(	20.60)	, 1027(	2.80)	, 1031(	0.70)	,
1032(	0.50)	, 1033(	1.40)	, 1046(	4.80)	, 1047(	9.00)	, 1048(	0.10)	, 1049(	0.72)	,
1072(	0.00)	, 1079(	310.00)	, 1090(	0.08)	, 1096(	14.00)	, 1100(	1.20)	, 1104(	0.36)	,
1114(	19.16)	, 1118(	44.00)	, 1124(	3.60)	, 1132(	1.40)	, 1133(	0.20)	, 1137(	1.40)	,
1138(	27.00)	, 1139(	15.00)	, 1140(	15.83)	, 1141(	0.00)	, 1144(	0.40)	, 1145(	3.18)	,
1146(	3.00)	, 1148(	12.96)	, 1149(	0.20)	, 1152(	93.60)	, 1154(	0.90)	, 1156(	0.40)	,
1157(	5.00)	, 1158(	2.80)	, 1159(	3.60)	, 1160(	4.80)	, 1162(	4.22)	, 1176(	2.50)	,
1178(	0.00)	, 1178(	0.30)	, 1184(	2.00)	, 1185(	1.50)	, 1186(	1.50)	, 1189(	1.50)	,
1190(	2.70)	, 1190(	4.80)	, 1191(	0.00)	, 1195(	15.42)	, 1198(	63.00)	, 1199(	115.20)	,
1200(	84.00)	, 1201(	0.30)	, 1202(	2.10)	, 1204(	1.08)	, 1206(	9.00)	, 1207(	0.16)	,
1208(	16.00)	, 1209(	0.40)									

MALACOSTEIDAE

malacosteus niger 457(0.00), 1045(0.20)

MALACANTHIDAE

malacanthus sp 893(0.45)

Steindachneria argenta (cont.)

899(	26.40)	,1021(	0.00)	,1040(	1.00)	,1042(	46.40)	,1043(	16.00)	,1092(	12.60)	,
1093(	157.32)	,1094(	54.40)	,1101(	90.00)	,1102(	34.05)	,1103(	229.60)	,1119(	58.20)	,
1120(	10.50)	,1129(	14.40)	,1130(	16.80)	,1142(	9.00)	,1143(	34.80)	,1151(	14.10)	,
1193(	2.40)	,1194(	2.00)									

MISAA00

Miscellaneous fish

395(	7.80)	,397(	16.50)	,398(	7.40)	,417(	4.00)	,418(	12.44)	,419(	16.20)	,
420(	16.30)	,421(	8.27)	,422(	17.00)	,485(	295.80)	,568(	2.00)	,576(	5.40)	,
577(	6.00)	,578(	1.60)	,612(	5.90)	,613(	23.75)	,616(	102.00)	,682(	7.31)	,
683(	15.00)	,684(	12.00)	,685(	6.00)	,703(	8.40)	,743(	29.10)	,790(	69.00)	,
796(	25.50)	,878(	4.50)	,1011(	8.80)	,1012(	7.80)					

MONACANTHIDAE

Aluterus sp

583(	4.00)											
77(	0.60)	,118(	1.80)	,125(	0.50)	,180(	0.60)	,231(	0.00)	,233(	0.10)	,
364(	19.20)	,366(	22.00)	,698(	2.40)	,814(	2.40)	,883(	2.00)	,937(	0.80)	,

Aluterus monoceros

149(	28.20)	,154(	1.20)	,184(	6.20)	,195(	8.20)	,196(	3.20)	,197(	12.60)	,
203(	1.20)	,183(	4.90)	,213(	18.00)	,214(	1.20)	,234(	1.20)	,255(	2.20)	,
260(	1.40)	,269(	1.20)	,277(	1.20)	,285(	16.40)	,286(	2.00)	,288(	3.80)	,
306(	2.00)	,336(	4.80)	,349(	2.40)	,350(	17.00)	,380(	2.00)	,461(	3.60)	,
463(	3.71)	,479(	3.00)	,480(	19.60)	,486(	16.00)	,492(	10.50)	,495(	10.32)	,
499(	6.60)	,500(	3.48)	,502(	4.37)	,503(	9.00)	,504(	3.40)	,509(	6.80)	,
510(	6.40)	,514(	2.60)	,518(	16.80)	,519(	3.20)	,520(	3.00)	,521(	2.40)	,
523(	195.00)	,531(	4.80)	,567(	0.00)	,574(	4.00)	,587(	23.60)	,588(	7.20)	,
596(	1.60)	,614(	4.60)	,620(	3.00)	,622(	0.40)	,652(	0.30)	,701(	1.40)	,
749(	1.20)	,763(	7.67)	,769(	9.40)	,771(	12.00)	,797(	3.50)	,806(	1.80)	,
814(	15.00)	,816(	1.13)	,881(	1.20)	,883(	0.60)	,884(	1.60)	,906(	0.40)	,
972(	7.00)	,978(	0.20)	,1047(	30.60)	,1049(	13.20)	,1080(	0.10)	,1104(	5.60)	,
1105(2.40)	,1106(6.30)	,1121(3.79)	,1129(1.30)	,1154(1.88)	,1201(1.84)	,
1205(5.20)											

Aluterus scripta

504(6.80)	,1165(0.14)	,1201(0.30)	,1205(1.30)					
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Aluterus schoepfi

147(1.20)	,148(0.40)	,149(5.10)	,157(10.20)	,163(11.60)	,179(5.30)	,
281(8.80)	,312(2.40)	,415(5.80)	,621(0.80)	,797(2.10)	,803(0.80)	,
931(	1.40)	,1207(	5.20)									

Aluterus heudelotii

628(6.00)	,804(1.38)	,951(3.90)	,956(0.20)	,959(3.00)	,1104(2.60)	,
1105(0.70)	,1116(0.80)									

Cantharhines sp

58(1.10)	,66(2.80)	,936(0.00)	,1192(0.00)					
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Monacanthus sp

229(0.00)	,230(0.00)	,256(0.00)	,257(0.40)	,258(0.00)	,426(0.80)	,
1127(0.02)											

Monacanthus ciliatus

840(0.00)	,990(0.22)	,1157(0.06)							
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Stephanolepis hispidus

750(1.00)	,959(0.72)	,628(0.00)	,634(0.00)	,1210(0.06)			
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Stephanolepis setifer

883(0.10)											
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MURIDAE

164(0.40)	,187(0.00)	,391(0.20)	,397(0.60)	,510(0.00)	,516(0.00)	,
524(0.00)	,577(2.00)	,578(0.80)	,594(1.83)	,612(13.50)	,682(5.61)	,
683(3.00)	,742(0.72)	,800(1.00)	,808(4.37)	,810(0.50)	,822(0.90)	,
1011(6.40)	,1094(0.80)	,1101(0.50)	,1135(1.20)					

Brosmiculus imberbis

146(0.75)	,525(0.00)									
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Laemonema sp

119(0.30)	,145(0.15)	,702(1.20)	,742(2.40)	,800(0.50)	,811(5.40)	,
822(0.00)											

Physiculus sp

390(	0.53)	,392(	0.20)	,395(	1.80)	,418(	1.31)	,419(	2.50)	,457(	0.30)	,
684(	5.40)	,685(	2.20)									

Physiculus fulvus

396(	6.30)	,397(	1.80)	,1092(	2.10)	,1101(	7.00)	,1102(	10.50)	,1103(	6.10)	,
1119(	1.80)	,1120(	7.20)	,1130(	3.50)	,1142(	3.60)	,1143(	0.15)	,1151(	6.90)	,
1193(	10.50)											

MUGILIDAE

Mugil sp	1169(	0.50)												
Mugil curema	134(	0.86)	, 136(	0.60)	, 756(	4.80)	, 1061(	0.30)	, 1182(	0.91)				
Mugil incilis	1165(	2.20)	, 1171(	4.50)										
MULLIDAE														
Mullius auratus	58(	7.00)	, 127(	1.00)	, 140(	0.50)	, 144(	1.60)	, 188(	2.60)	, 598(	2.20)		
	1106(	25.20)	, 1113(	129.60)	, 1158(	0.80)	, 1192(	0.20)	, 1196(	0.08)	, 1202(	9.80)		
Mulloidichthys martinicus	56(	23.40)	, 183(	5.60)	, 184(	2.20)	, 186(	1.50)	, 198(	0.90)	, 216(	5.60)		
	290(	0.60)	, 316(	28.00)	, 580(	4.11)	, 582(	2.00)	, 786(	33.00)	, 877(	0.00)		
	881(	1.60)	, 884(	0.30)	, 886(	0.60)	, 890(	1.00)	, 894(	1.20)	, 896(	0.50)		
	906(	0.30)	, 953(	1.20)	, 1081(	20.00)	, 1100(	45.60)	, 1159(	2.60)	, 1160(	0.06)		
	1198(	5.60)	, 1202(	0.70)										
Pseudupeneus maculatus	53(	0.40)	, 66(	0.80)	, 136(	0.90)	, 161(	3.80)	, 163(	74.00)	, 277(	0.70)		
	316(	2.00)	, 504(	2.80)	, 510(	0.40)	, 534(	0.40)	, 567(	2.00)	, 576(	2.40)		
	580(	0.51)	, 582(	2.00)	, 585(	1.00)	, 621(	0.00)	, 650(	8.00)	, 651(	1.00)		
	765(	3.60)	, 772(	6.20)	, 842(	0.30)	, 866(	0.30)	, 877(	1.60)	, 881(	1.20)		
	883(	0.10)	, 884(	0.00)	, 886(	0.30)	, 888(	2.00)	, 890(	0.50)	, 900(	0.40)		
	905(	0.30)	, 904(	0.60)	, 910(	0.30)	, 950(	1.00)	, 951(	3.00)	, 953(	16.80)		
	957(	1.60)	, 1080(	4.10)	, 1100(	2.40)	, 1117(	17.00)	, 1122(	0.00)	, 1124(	10.80)		
	1127(	0.20)	, 1141(	0.30)	, 1160(	0.06)	, 1190(	0.12)	, 1198(	5.60)	, 1201(	0.30)		
	1207(	0.12)												
Upeneus parvus	8(	1.40)	, 9(	0.20)	, 10(	30.00)	, 12(	1.80)	, 13(	0.20)	, 18(	0.00)		
	21(	1.60)	, 22(	0.40)	, 23(	0.00)	, 28(	1.40)	, 31(	2.00)	, 33(	0.00)		
	35(	2.40)	, 36(	2.20)	, 37(	0.00)	, 52(	4.00)	, 57(	2.00)	, 64(	8.20)		
	72(	1.80)	, 73(	0.40)	, 78(	13.40)	, 79(	0.00)	, 81(	2.80)	, 90(	6.40)		
	106(	1.00)	, 109(	0.15)	, 110(	0.10)	, 112(	1.20)	, 113(	9.60)	, 118(	10.80)		
	125(	2.20)	, 127(	2.00)	, 137(	0.00)	, 138(	2.40)	, 140(	0.50)	, 142(	0.00)		
	143(	0.50)	, 144(	1.40)	, 147(	8.40)	, 148(	0.60)	, 149(	18.00)	, 151(	7.84)		
	155(	0.00)	, 157(	183.60)	, 158(	0.40)	, 160(	0.74)	, 161(	8.60)	, 165(	0.20)		
	166(	2.00)	, 168(	1.60)	, 170(	0.16)	, 171(	0.20)	, 172(	1.40)	, 173(	2.40)		
	174(	0.40)	, 177(	0.04)	, 181(	3.80)	, 182(	0.00)	, 183(	81.20)	, 184(	75.60)		
	186(	1.20)	, 187(	0.02)	, 188(	0.00)	, 195(	0.20)	, 196(	2.00)	, 197(	0.90)		
	198(	73.50)	, 205(	1.50)	, 207(	15.60)	, 208(	7.20)	, 213(	0.80)	, 216(	30.80)		
	220(	0.00)	, 221(	0.08)	, 222(	0.00)	, 225(	0.00)	, 226(	151.20)	, 227(	135.60)		
	230(	0.00)	, 231(	0.00)	, 232(	5.60)	, 233(	0.00)	, 254(	0.00)	, 256(	36.00)		
	258(	51.20)	, 259(	62.00)	, 260(	0.80)	, 264(	0.00)	, 265(	2.40)	, 266(	24.80)		
	267(	64.40)	, 268(	86.80)	, 269(	0.00)	, 272(	0.00)	, 274(	8.00)	, 277(	3.90)		
	278(	0.00)	, 279(	32.00)	, 280(	24.00)	, 281(	0.04)	, 282(	2.08)	, 285(	0.20)		
	286(	0.00)	, 290(	0.30)	, 293(	0.10)	, 295(	3.60)	, 296(	16.00)	, 297(	0.10)		
	299(	1.91)	, 312(	28.20)	, 317(	2.40)	, 319(	0.00)	, 320(	6.00)	, 321(	27.60)		
	323(	0.00)	, 330(	164.40)	, 331(	4.00)	, 336(	120.00)	, 337(	0.00)	, 340(	0.20)		
	341(	1.00)	, 345(	28.00)	, 348(	1.40)	, 351(	2.00)	, 352(	4.00)	, 353(	1.80)		
	355(	8.40)	, 361(	0.00)	, 362(	1.20)	, 364(	0.80)	, 367(	8.00)	, 368(	13.20)		
	380(	0.20)	, 381(	0.40)	, 382(	8.40)	, 383(	24.00)	, 384(	2.40)	, 385(	0.80)		
	399(	25.00)	, 400(	4.80)	, 401(	0.40)	, 408(	1.40)	, 409(	8.73)	, 410(	7.70)		
	412(	0.60)	, 414(	0.30)	, 415(	0.00)	, 423(	6.00)	, 424(	2.00)	, 425(	3.20)		
	426(	20.00)	, 427(	3.60)	, 429(	6.40)	, 430(	3.20)	, 431(	0.00)	, 434(	0.00)		
	444(	0.00)	, 455(	0.60)	, 456(	88.00)	, 458(	29.40)	, 460(	125.00)	, 461(	3.20)		
	463(	0.14)	, 467(	40.00)	, 468(	19.40)	, 469(	8.10)	, 471(	21.50)	, 472(	11.70)		
	473(	43.20)	, 474(	40.00)	, 478(	0.36)	, 479(	182.60)	, 480(	19.60)	, 481(	144.00)		
	482(	81.90)	, 483(	20.80)	, 484(	20.80)	, 484(	18.20)	, 486(	6.40)	, 491(	7.60)		
	492(	11.84)	, 494(	2.40)	, 495(	29.70)	, 496(	25.00)	, 499(	3.20)	, 500(	0.36)		
	502(	27.51)	, 503(	1.40)	, 510(	3.60)	, 511(	4.80)	, 512(	0.50)	, 513(	3.40)		
	514(	8.60)	, 515(	7.68)	, 516(	0.00)	, 518(	4.00)	, 519(	5.40)	, 521(	1.20)		
	527(	2.00)	, 528(	1.60)	, 529(	0.00)	, 530(	0.20)	, 531(	5.20)	, 532(	0.60)		
	533(	2.40)	, 535(	0.30)	, 536(	1.04)	, 537(	0.90)	, 548(	4.80)	, 549(	1.50)		
	556(	0.09)	, 557(	0.40)	, 560(	0.20)	, 561(	0.80)	, 562(	3.00)	, 563(	0.00)		

Upeneus parvus (cont.)

564(	10.91)	, 565(	29.20)	, 566(	1.00)	, 567(	4.00)	, 569(	0.40)	, 571(	1.60)	,
572(	0.90)	, 573(	8.40)	, 574(	0.30)	, 575(	2.80)	, 580(	3.09)	, 581(	25.00)	,
582(	10.00)	, 583(	16.50)	, 584(	16.00)	, 589(	0.80)	, 591(	0.65)	, 592(	14.80)	,
595(	3.80)	, 596(	1.00)	, 597(	0.20)	, 598(	0.20)	, 600(	12.60)	, 602(	2.00)	,
603(	3.00)	, 604(	0.40)	, 605(	9.00)	, 606(	0.20)	, 609(	0.80)	, 611(	0.40)	,
614(	16.60)	, 617(	14.40)	, 618(	32.91)	, 619(	7.20)	, 622(	5.60)	, 623(	0.60)	,
624(	0.00)	, 626(	4.00)	, 627(	12.80)	, 630(	37.00)	, 631(	25.00)	, 634(	52.00)	,
643(	31.00)	, 644(	0.20)	, 645(	0.20)	, 646(	0.80)	, 647(	17.60)	, 648(	5.00)	,
649(	12.00)	, 652(	1.40)	, 653(	9.40)	, 656(	1.00)	, 657(	7.80)	, 661(	7.40)	,
662(	3.20)	, 663(	5.00)	, 664(	2.00)	, 671(	1.93)	, 672(	6.80)	, 673(	1.80)	,
677(	0.20)	, 678(	8.40)	, 679(	8.80)	, 681(	1.20)	, 686(	7.20)	, 692(	4.20)	,
696(	1.40)	, 698(	36.80)	, 701(	16.50)	, 711(	3.00)	, 712(	17.60)	, 713(	11.00)	,
714(	9.00)	, 715(	0.00)	, 736(	18.40)	, 737(	2.60)	, 740(	0.00)	, 744(	7.00)	,
746(	0.30)	, 749(	0.00)	, 759(	0.00)	, 761(	0.10)	, 762(	1.10)	, 763(	20.67)	,
764(	1.00)	, 765(	1.24)	, 769(	5.60)	, 770(	0.40)	, 771(	53.50)	, 772(	3.80)	,
773(	0.00)	, 782(	0.00)	, 783(	1.80)	, 784(	1.80)	, 785(	32.80)	, 788(	134.40)	,
789(	0.80)	, 791(	2.40)	, 792(	13.50)	, 794(	10.00)	, 795(	20.80)	, 803(	0.40)	,
804(	0.20)	, 805(	5.40)	, 806(	20.00)	, 807(	0.60)	, 813(	18.50)	, 814(	2.40)	,
815(	2.50)	, 816(	0.15)	, 817(	3.60)	, 818(	0.10)	, 825(	9.36)	, 828(	4.30)	,
830(	11.70)	, 831(	1.16)	, 833(	14.40)	, 834(	8.00)	, 835(	32.00)	, 836(	19.35)	,
837(	90.00)	, 839(	6.00)	, 840(	15.90)	, 841(	0.10)	, 842(	41.10)	, 843(	25.90)	,
845(	0.60)	, 854(	0.40)	, 858(	0.88)	, 862(	5.40)	, 864(	6.00)	, 865(	9.20)	,
866(	5.60)	, 867(	7.80)	, 871(	3.00)	, 872(	1.80)	, 873(	3.00)	, 874(	2.70)	,
876(	0.50)	, 877(	8.00)	, 881(	9.60)	, 885(	26.80)	, 886(	1.80)	, 890(	0.00)	,
891(	0.20)	, 892(	0.00)	, 893(	0.00)	, 894(	4.00)	, 895(	0.50)	, 896(	2.00)	,
902(	0.12)	, 905(	3.60)	, 904(	0.10)	, 906(	17.20)	, 908(	0.00)	, 911(	0.60)	,
914(	1.60)	, 915(	0.80)	, 917(	0.20)	, 920(	3.00)	, 926(	74.10)	, 931(	2.08)	,
932(	1.00)	, 934(	1.60)	, 935(	2.00)	, 936(	17.45)	, 937(	40.50)	, 938(	6.00)	,
939(	39.60)	, 949(	9.30)	, 950(	9.00)	, 951(	7.20)	, 952(	18.20)	, 954(	0.46)	,
955(	4.60)	, 956(	6.40)	, 957(	24.40)	, 958(	0.30)	, 959(	8.40)	, 960(	0.24)	,
963(	0.22)	, 964(	1.08)	, 978(	72.00)	, 979(	13.00)	, 981(	14.40)	, 982(	49.20)	,
988(	0.30)	, 989(	0.30)	, 990(	57.40)	, 992(	1.00)	, 997(	1.00)	, 1000(	6.40)	,
1001(	0.80)	, 1004(	1.60)	, 1007(	0.20)	, 1008(	8.40)	, 1009(	0.38)	, 1010(	6.50)	,
1014(	3.20)	, 1021(	0.40)	, 1024(	0.20)	, 1025(	1.00)	, 1026(	0.60)	, 1027(	4.00)	,
1028(	0.69)	, 1031(	3.50)	, 1033(	0.30)	, 1034(	1.60)	, 1038(	0.60)	, 1046(	0.10)	,
1048(	0.60)	, 1051(	7.80)	, 1052(	1.40)	, 1050(	4.80)	, 1067(	2.10)	, 1079(	100.00)	,
1088(	0.64)	, 1090(	2.88)	, 1095(	6.00)	, 1096(	2.50)	, 1097(	2.20)	, 1098(	6.40)	,
1099(	0.96)	, 1100(	16.80)	, 1104(	22.20)	, 1105(	0.00)	, 1106(	75.60)	, 1107(	0.40)	,
1113(	28.80)	, 1114(	2.33)	, 1115(	40.20)	, 1116(	23.40)	, 1118(	1.84)	, 1121(	9.47)	,
1124(	44.40)	, 1131(	3.00)	, 1132(	5.00)	, 1133(	2.00)	, 1134(	20.70)	, 1137(	5.60)	,
1138(	11.10)	, 1139(	55.00)	, 1140(	13.33)	, 1144(	4.20)	, 1145(	32.47)	, 1146(	2.40)	,
1147(	0.02)	, 1148(	12.96)	, 1149(	16.80)	, 1152(	4.80)	, 1154(	1.05)	, 1155(	29.74)	,
1156(	11.80)	, 1157(	0.60)	, 1158(	5.20)	, 1159(	0.60)	, 1160(	3.60)	, 1161(	1.00)	,
1162(	0.22)	, 1163(	0.00)	, 1174(	1.34)	, 1175(	0.96)	, 1176(	16.56)	, 1177(	8.70)	,
1178(	1.62)	, 1185(	2.00)	, 1186(	12.80)	, 1188(	10.00)	, 1189(	27.50)	, 1190(	11.10)	,
1191(	3.96)	, 1192(	0.30)	, 1195(	21.24)	, 1198(	2.80)	, 1199(	15.60)	, 1200(	12.00)	,
1201(6.20)	, 1204(2.60)	, 1206(1.00)	, 1207(4.00)	, 1208(12.00)	, 1209(1.20)	,
1210(0.08)	, 5(1.20)									

MURAENIDAE

79(0.00)	, 82(0.60)	, 86(2.60)	, 88(2.40)	, 82(0.90)	, 200(0.00)	,
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Gymnothorax sp

185(0.10)											
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Gymnothorax ocellatus

5(2.00)	, 89(0.00)	, 112(0.00)	, 122(13.20)	, 125(1.60)	, 141(0.60)	,
159(0.24)	, 233(1.00)	, 265(1.00)	, 399(2.00)	, 408(6.00)	, 410(7.70)	,
468(	0.80)	, 614(	0.60)	, 621(	0.00)	, 737(	11.00)	, 749(	3.00)	, 814(	0.40)	,
1008(	2.00)	, 1014(	1.80)	, 1088(	2.00)	, 83(	0.40)	, 113(	0.00)	, 140(	1.50)	,
173(	1.00)	, 367(	0.40)	, 409(	5.27)	, 565(	0.40)	, 687(	0.80)	, 803(	0.80)	,

NO CATCH (cont.)

	1066(	0.00)	,1164(	0.00)	,1211(	0.00)						
NOMEIDAE												
<i>Cubiceps</i> sp	6(	117.60)	, 7(	20.00)	, 10(	7.00)	, 57(	14.00)				
<i>Psenes</i> sp	18(	0.29)										
OGCOEPHALIDAE												
	13(	0.40)	, 51(	0.00)	, 62(	0.00)	, 82(	0.00)	, 88(	6.40)	, 91(	5.00)
	94(	0.00)	, 112(	1.20)	, 403(	0.40)	, 446(	0.00)	, 956(	0.00)	, 1000(	2.00)
	1012(	0.06)										
<i>Dibranchus</i> sp	11(	0.00)	, 925(	0.30)	, 1107(	0.08)						
<i>Dibranchus atlanticus</i>	296(	0.40)	, 393(	0.00)	, 396(	0.00)	, 577(	0.60)	, 613(	0.70)	, 703(	0.10)
	711(	0.00)	, 1044(	0.45)	, 1092(	1.75)	, 1093(	0.63)	, 1101(	1.00)	, 1102(	0.15)
	1103(	33.60)	, 1104(	0.30)	, 1125(	0.04)	, 1130(	0.14)	, 1142(	0.06)	, 1143(	0.12)
	1193(	0.30)	, 1194(	0.15)								
<i>Haliutichthys</i> sp.	392(	2.00)	, 410(	1.50)	, 1134(	0.00)	, 1154(	0.00)	, 1155(	0.04)		
<i>Haliutichthys aculeatus</i>	433(	0.00)	, 1104(	0.18)	, 1125(	0.02)	, 577(	0.20)	, 831(	0.00)	, 597(	0.00)
<i>Ogcocephalus</i> sp	43(	0.00)	, 49(	0.00)	, 89(	1.50)	, 185(	0.00)	, 352(	0.00)	, 383(	3.20)
	429(	2.40)	, 445(	1.00)	, 450(	0.00)	, 595(	0.30)	, 673(	0.60)	, 726(	1.20)
	1009(	0.00)	, 1132(	0.04)	, 1137(	0.00)	, 1155(	0.04)	, 1156(	0.02)		
<i>Ogcocephalus parvus</i>	106(	2.00)	, 285(	0.80)	, 652(	0.10)	, 1133(	1.00)	, 1177(	0.30)		
<i>Ogcocephalus nasutus</i>	190(	0.00)	, 191(	0.00)	, 209(	0.70)	, 218(	0.00)	, 331(	0.80)	, 384(	0.80)
	385(	0.60)	, 416(	1.60)	, 417(	0.40)	, 470(	6.60)	, 633(	0.80)	, 662(	0.00)
	672(	0.80)	, 677(	0.80)	, 686(	2.40)	, 736(	0.40)	, 784(	0.60)	, 795(	0.00)
	899(	0.00)	, 979(	1.20)	, 1008(	1.28)	, 1010(	1.50)	, 1014(	4.20)	, 1050(	0.45)
	1091(	0.64)	, 1095(	0.12)								
<i>Ogcocephalus vespertilio</i>	187(	0.30)	, 478(	0.36)	, 817(	0.00)	, 976(	0.00)	, 1131(	0.20)		
<i>Ogcocephalus notatus</i>	200(	0.00)	, 516(	0.00)	, 1064(	0.46)	, 1075(	1.80)	, 1208(	4.00)		
<i>Ogcocephalus pumilus</i>	385(	0.60)	, 409(	0.00)	, 1125(	0.02)						
<i>Ogcocephalus radiatus</i>	1158(	0.60)										
<i>Zalieutes</i> sp	186(	0.00)	, 662(	0.00)								
<i>Zalieutes mcgintyi</i>	392(	0.00)	, 433(	1.60)	, 524(	0.00)	, 525(	0.00)	, 526(	0.00)	, 652(	0.00)
	654(	0.00)	, 808(	0.17)	, 810(	0.05)						
OPHIIDAE												
	22(	0.00)	, 82(	0.10)	, 88(	0.00)	, 185(	0.20)	, 390(	0.35)	, 578(	0.40)
	673(	43.20)	, 814(	0.00)	, 1093(	1.89)	, 1118(	0.40)	, 1120(	0.30)		
<i>Brotula</i> sp.	107(	0.00)	, 616(	6.00)								
<i>Brotula barbata</i>	198(	4.00)	, 510(	2.00)	, 516(	2.40)	, 524(	1.20)	, 525(	0.32)	, 526(	2.10)
	990(	0.80)	, 1158(	1.80)								
<i>Dicrolene intronigra</i>	391(	0.10)	, 743(	5.70)								
<i>Lamprogrammus niger</i>	1045(	1.00)										
<i>Lepophidium</i> sp	5(	0.40)	, 87(	0.00)	, 88(	0.00)	, 89(	0.00)	, 90(	3.20)	, 139(	1.00)
	169(	0.96)	, 185(	0.10)	, 208(	0.00)	, 221(	0.00)	, 256(	0.60)	, 258(	0.30)
	260(	1.60)	, 269(	0.36)	, 277(	1.80)	, 279(	3.20)	, 289(	2.20)	, 295(	7.60)
	296(	1.60)	, 330(	0.00)	, 331(	1.20)	, 351(	0.00)	, 352(	2.00)	, 366(	2.00)
	368(	6.80)	, 399(	15.00)	, 400(	8.40)	, 401(	4.40)	, 436(	0.00)	, 439(	0.00)
	443(	3.20)	, 444(	6.40)	, 445(	1.50)	, 448(	1.60)	, 453(	0.33)	, 466(	11.20)
	467(	10.00)	, 483(	0.00)	, 484(	2.60)	, 490(	3.20)	, 548(	4.80)	, 619(	2.40)
	662(	0.60)	, 664(	3.20)	, 676(	1.20)	, 677(	17.60)	, 712(	3.20)	, 713(	22.00)
	721(	9.60)	, 725(	2.00)	, 726(	0.80)	, 729(	12.00)	, 732(	0.00)	, 737(	0.60)
	791(	0.80)	, 792(	1.50)	, 794(	0.80)	, 815(	1.50)	, 843(	66.60)	, 845(	8.00)
	877(	0.00)	, 905(	1.60)	, 920(	2.00)	, 1014(	13.60)				
<i>Lepophidium profundorum</i>	173(	19.20)	, 174(	1.60)	, 185(	0.30)	, 321(	0.20)	, 410(	12.40)	, 416(	1.70)
	427(	3.00)	, 429(	4.00)	, 430(	2.00)	, 441(	2.00)	, 442(	2.40)	, 510(	2.80)
	516(	2.10)	, 517(	0.00)	, 524(	1.90)	, 525(	7.89)	, 526(	0.22)	, 538(	3.60)
	546(	21.00)	, 547(	5.49)	, 558(	2.40)	, 567(	4.00)	, 577(	2.60)	, 578(	2.40)
	579(	1.09)	, 593(	0.80)	, 593(	2.60)	, 594(	0.78)	, 603(	0.60)	, 618(	6.86)

Lepophidium profundorum (cont.)

626(	6.00)	, 627(	4.00)	, 628(	1.80)	, 633(	2.40)	, 634(	3.50)	, 643(	2.60)	,	
644(	1.00)	, 652(	3.60)	, 653(	0.60)	, 663(	2.50)	, 672(	3.20)	, 679(	0.20)	,	
681(	0.00)	, 686(	4.80)	, 687(	3.20)	, 688(	1.80)	, 689(	4.00)	, 691(	9.00)	,	
698(	0.80)	, 709(	3.00)	, 711(	9.60)	, 720(	0.00)	, 722(	9.40)	, 723(	6.40)	,	
724(	5.40)	, 728(	1.60)	, 730(	17.00)	, 738(	0.60)	, 808(	5.25)	, 809(	0.60)	,	
831(	15.20)	, 833(	5.76)	, 840(	0.90)	, 842(	2.70)	, 846(	1.20)	, 854(	12.00)	,	
856(	0.00)	, 858(	26.40)	, 867(	5.72)	, 878(	1.80)	, 881(	0.80)	, 899(	4.20)	,	
906(	0.60)	, 936(	0.11)	, 937(	3.30)	, 938(	1.40)	, 939(	0.20)	, 949(	9.30)	,	
950(	0.06)	, 951(	0.00)	, 989(	3.20)	, 990(	0.42)	, 1000(	0.12)	, 1007(	15.60)	,	
1008(	17.60)	, 1009(	2.50)	, 1010(	24.00)	, 1022(	11.40)	, 1023(	22.20)	, 1031(	10.00)	,	
1052(	3.50)	, 1053(	1.80)	, 1061(	0.00)	, 1063(	1.44)	, 1064(	0.60)	, 1069(	6.40)	,	
1070(	4.80)	, 1071(	9.80)	, 1072(	0.00)	, 1073(	1.20)	, 1074(	0.00)	, 1076(	0.36)	,	
1082(	14.10)	, 1084(	3.00)	, 1091(	0.20)	, 1118(	1.12)	, 1134(	0.16)	, 1135(	3.20)	,	
1143(	0.03)	, 1151(	0.00)	, 1158(	12.40)	, 1159(	0.60)	, 1160(	0.00)	, 1174(	17.40)	,	
1179(	0.04)	, 1183(	15.00)	, 1183(	8.00)	, 1184(	0.32)	, 1185(	11.00)	, 1191(	10.66)	,	
1192(	0.20)	, 1194(	1.00)										
Lepophidium breviarbe	312(	0.60)	, 382(	1.80)	, 383(	7.20)	, 403(	0.00)					
Lepophidium pheromystax	628(	1.20)	, 662(	1.60)	, 663(	3.50)	, 698(	2.40)	, 791(	0.60)	, 794(	0.00)	,
	809(	1.50)	, 814(	1.80)	, 815(	0.00)	, 816(	0.00)	, 830(	0.00)	, 881(	3.20)	,
	890(	0.00)	, 937(	0.00)	, 950(	0.18)	, 951(	0.60)	, 981(	0.80)	, 990(	1.26)	,
	1023(	0.00)	, 1118(	0.72)	, 1134(	0.00)	, 1159(	0.24)	, 1160(	0.30)	, 1192(	0.40)	,
	1194(	1.00)	, 1202(	0.28)	, 1210(	0.20)							
Monomitopus sp	743(	3.60)	, 1012(	6.60)									
Monomitopus agassizii	702(	0.80)	, 703(	5.50)	, 980(	0.40)	, 1040(	1.90)	, 1041(	0.50)	, 1044(	1.50)	,
	1045(	1.80)	, 1102(	0.06)									
Neobythites sp.	145(	0.70)	, 146(	0.38)									
Neobythites gillii	139(	2.00)	, 164(	0.20)	, 175(	0.60)	, 200(	0.03)	, 217(	0.00)			
Ophidion sp.	127(	1.00)	, 145(	0.40)	, 174(	19.20)	, 200(	0.53)	, 233(	2.40)	, 312(	1.20)	,
	321(	0.20)	, 384(	16.00)	, 385(	16.00)	, 399(	2.00)	, 619(	0.80)	, 644(	0.10)	,
	652(	0.40)	, 653(	0.60)	, 686(	1.20)	, 687(	0.80)	, 688(	1.20)	, 842(	1.20)	,
	938(	0.20)	, 939(	0.20)	, 1009(	0.30)	, 1134(	0.00)					
Ophidion holbrooki	483(	4.80)	, 801(	0.00)	, 803(	0.20)	, 816(	3.60)	, 830(	0.30)	, 990(	0.36)	,
	1202(	1.40)											
utophidium sp	146(	0.00)	, 164(	0.00)	, 190(	0.40)	, 198(	0.00)	, 217(	0.40)			
Parophidion sp	187(	0.20)											
OPHICHTHIDAE	10(	0.00)	, 82(	0.60)	, 89(	0.00)	, 90(	0.00)	, 91(	0.00)	, 115(	0.20)	,
	159(	0.00)	, 671(	19.71)									
Aplatophis chauliodus	1028(	0.74)	, 1036(	4.00)									
Mystrionphis interstinctus	169(	8.40)											
Ophichthus sp.	1014(	0.50)											
Ophichthus ophis	180(	0.60)	, 1100(	2.40)									
Ophichthus spinicauda	191(	0.00)											
Ophichthus parilis	846(	2.40)											
Ophichthus gomesi	1158(	0.40)											
OPISTOGNATHIDAE	110(	0.00)											
Lonchopisthus sp	232(	0.00)	, 260(	0.00)	, 808(	0.17)	, 1009(	0.00)	, 1162(	0.07)	, 1183(	0.00)	,
Lonchopisthus higmani	232(	0.00)	, 260(	0.00)	, 737(	0.30)	, 1023(	0.00)	, 1082(	1.20)			
OSTRACIIDAE	585(	7.20)	, 587(	2.80)									
Acanthostracion sp	599(	1.00)	, 696(	0.40)									
Acanthostracion polygonos	161(	4.00)	, 162(	5.60)	, 163(	27.00)	, 182(	5.80)	, 188(	0.60)	, 259(	3.00)	,
	287(	1.80)	, 290(	1.20)	, 515(	0.96)	, 883(	0.20)	, 900(	5.40)	, 901(	0.10)	,
	904(	0.60)	, 910(	2.00)	, 953(	1.20)	, 1117(	45.80)	, 1121(	3.16)	, 1122(	0.00)	,
	1123(	2.80)	, 1125(	1.60)	, 1126(	3.00)	, 1127(	27.00)	, 1154(	0.38)	, 1157(	0.60)	,

Acanthostracion polygonos (cont.)												
	1160(	0.60)	,1198(	18.80)	,1201(	3.40)	,1202(	9.94)	,1205(	0.20)		
Acanthostracion quadricornis	1097(	0.40)	,1098(	3.00)	,1099(	1.00)	,1100(	3.60)	, 5(	0.00)	, 27(	3.60)
	51(	1.20)	, 60(	3.20)	, 79(	0.00)	, 126(	12.80)	, 136(	0.00)	, 163(	7.20)
	180(	1.10)	, 25(	0.80)	, 52(	9.00)	, 103(	0.00)	, 161(	29.50)	, 49(	2.00)
	135(	0.80)	, 68(	0.00)	, 178(	0.00)	, 181(	3.00)	, 220(	7.60)	, 259(	0.60)
	290(	0.60)	, 296(	1.00)	, 316(	3.20)	, 331(	6.00)	, 336(	0.00)	, 340(	0.40)
	349(	0.40)	, 354(	0.00)	, 456(	4.80)	, 462(	0.50)	, 492(	1.50)	, 506(	0.30)
	515(	2.64)	, 564(	4.36)	, 585(	4.60)	, 600(	2.80)	, 603(	1.20)	, 618(	2.74)
	621(	0.80)	, 626(	32.00)	, 628(	3.00)	, 630(	0.40)	, 643(	1.00)	, 646(	1.80)
	650(	2.00)	, 653(	0.00)	, 663(	8.50)	, 701(	1.60)	, 778(	14.00)	, 803(	1.20)
	826(	0.75)	, 828(	1.00)	, 848(	0.40)	, 883(	0.60)	, 888(	1.60)	, 900(	0.60)
	910(	0.40)	, 936(	3.82)	, 938(	3.40)	, 950(	8.40)	, 956(	2.40)	, 958(	0.20)
	963(	0.80)	, 966(	0.10)	, 972(	0.40)	, 978(	0.40)	, 981(	4.00)	, 1022(	1.20)
	216(	1.68)	, 286(	0.60)	, 312(	11.40)	, 333(	0.40)	, 347(	0.00)	, 399(	3.00)
	478(	31.20)	, 509(	4.80)	, 584(	6.40)	, 602(	3.20)	, 619(	2.40)	, 627(	6.00)
	634(	1.50)	, 648(	0.70)	, 662(	1.80)	, 753(	0.50)	, 825(	4.80)	, 830(	18.00)
	886(	4.40)	, 906(	2.00)	, 937(	2.40)	, 951(	9.60)	, 962(	3.00)	, 970(	0.06)
	981(	5.60)	, 221(	0.70)	, 321(	0.40)	, 350(	0.20)	, 504(	17.50)	, 587(	1.60)
	622(	0.60)	, 644(	0.00)	, 698(	22.40)	, 827(	1.20)	, 894(	2.00)	, 949(	4.00)
	964(	0.40)	, 990(	4.90)	, 295(	0.12)	, 461(	1.40)	, 608(	7.85)	, 651(	1.80)
	863(	0.20)	, 957(	0.40)	, 337(	1.20)	, 629(	0.80)	, 920(	1.20)	, 533(	1.40)
	977(	0.28)	, 779(	6.00)	, 1049(	0.72)	, 1081(	6.00)	, 1090(	1.20)	, 1080(	21.65)
	1091(	0.80)	, 1089(	14.40)	, 1104(	1.60)	, 1105(	6.00)	, 1121(	4.26)	, 1124(	6.00)
	1127(	4.20)	, 1131(	1.20)	, 1132(	3.40)	, 1133(	5.00)	, 1137(	6.30)	, 1149(	0.72)
	1153(	4.40)	, 1154(	9.45)	, 1156(	5.00)	, 1157(	1.80)	, 1160(	1.50)	, 1170(	0.40)
	1178(	0.16)	, 1184(	8.00)	, 1185(	2.00)	, 1190(	0.60)	, 1196(	0.40)	, 1198(	3.00)
	1200(	6.60)	, 1201(	0.20)	, 1202(	2.80)	, 1205(	5.00)	, 1206(	5.20)	, 1207(	8.00)
Lactophrys trigonus												
	234(	3.00)	, 531(	4.60)	, 533(	2.00)	, 583(	6.00)	, 587(	11.60)	, 588(	7.20)
	600(	0.70)	, 798(	6.50)	, 872(	3.00)	, 883(	3.80)	, 900(	10.50)	, 901(	0.40)
	1133(	1.40)	, 1153(	2.60)	, 1156(	3.60)	, 1157(	3.20)	, 1197(	301.00)	, 1205(	14.00)
Rhinesomus triqueter												
	161(	3.54)	, 798(	13.00)	, 1117(	2.60)						
Rhinesomus bicaudalis												
	161(	2.60)	, 907(	1.20)								
PARALEPIDIDAE												
Dolichosudis fuliginosa												
	457(	0.40)	, 601(	0.00)	, 1095(	0.18)						
Lestrolepis intermedia												
	796(	0.00)										
Stemonosudis rothschildi												
	107(	2.25)	, 114(	0.80)	, 115(	0.20)	, 822(	0.00)				
PERCICHTYDAE												
	899(	90.00)										
PERCUPHIOIDAE												
Bembrops sp												
	7(	1.40)	, 391(	0.00)	, 392(	0.60)						
	175(	1.20)	, 185(	0.04)	, 186(	0.90)	, 516(	0.60)	, 524(	1.50)	, 525(	0.16)
	577(	0.40)	, 578(	0.40)	, 579(	8.18)	, 594(	0.52)	, 601(	0.00)	, 808(	1.22)
	809(	1.50)	, 812(	0.30)	, 822(	3.30)	, 1101(	10.00)	, 1102(	0.06)	, 1142(	0.18)
	1143(	2.40)	, 1193(	0.08)	, 1194(	0.25)						
PECBE03												
	780(	1.50)	, 878(	0.00)	, 1043(	0.00)						
Bembrops anatirostris												
	1092(	1.40)	, 1093(	9.44)	, 120(	0.20)	, 164(	0.60)	, 200(	0.00)	, 219(	0.40)
	395(	0.30)	, 416(	0.00)	, 685(	0.00)	, 742(	3.60)	, 810(	0.10)	, 826(	0.00)
	146(	0.75)	, 218(	0.80)	, 398(	0.30)	, 702(	5.40)	, 823(	0.30)	, 191(	0.50)
	576(	0.60)	, 393(	0.53)	, 1119(	0.60)	, 1120(	0.45)	, 1129(	4.80)	, 1130(	5.60)
	1135(	0.80)	, 1136(	4.80)	, 1151(	0.30)						
PERISTEDIIDAE												
Peristedion sp												
	6(	0.00)	, 7(	1.20)	, 8(	0.40)	, 11(	0.00)	, 106(	3.60)	, 120(	0.20)
	139(	2.40)	, 145(	0.30)	, 146(	0.75)	, 185(	0.00)	, 217(	0.00)	, 218(	0.00)

Peristedion sp(cont.)	510(3.60) , 516(0.00) , 524(1.20) , 525(1.58) , 526(1.05) , 568(1.20) , 573(9.20) , 574(0.60) , 702(0.80) , 703(0.10) , 742(0.48) , 780(5.25) , 808(0.87) , 809(0.45) , 810(0.05) , 822(0.60) , 824(0.10) , 826(0.75) , 878(0.90) , 879(0.00) , 1129(1.80) , 1130(0.14) , 1135(3.20) , 1136(3.29) , 1142(0.30) , 1143(1.50) , 1151(0.18) , 1193(0.30)
Peristedion gracile	107(0.45) , 120(1.80) , 139(12.00) , 145(0.20) , 146(1.50) , 185(0.70) , 186(24.60) , 188(0.80) , 190(0.10) , 191(0.10) , 198(0.30) , 200(0.67) , 189(0.06) , 218(0.04) , 219(0.12) , 222(0.00) , 367(0.80) , 368(0.40) , 391(0.00) , 392(0.40) , 393(0.26) , 394(10.80) , 395(0.20) , 398(0.30) , 416(0.30) , 417(0.80) , 419(0.10) , 421(0.07) , 1033(0.02) , 1093(3.15) , 1094(0.80) , 1102(0.30) , 1103(1.12) , 1120(0.75) , 1130(0.28) , 1136(1.80) ,
Peristedion ecuadorensis	191(0.20) , 200(0.07) , 612(0.00) , 613(0.95) , 682(0.34) , 879(1.65) , 980(0.05) , 1041(0.37) , 1043(0.00) , 1044(0.90) , 1045(0.20) , 1120(0.30) ,
Peristedion truncatum	394(0.10) , 395(0.00)
Peristedion miniatum	516(0.30) , 576(2.10) , 577(0.80) , 578(0.20) , 579(4.36) , 743(0.90) , 790(0.15) , 808(0.87) , 809(0.45) , 810(0.05) , 826(0.15) , 878(0.45) , 1135(2.80) , 1143(0.15)
PLEURONECTIDAE	107(0.00) , 115(0.00) , 1135(0.04)
Poecilopsetta sp	7(0.00) , 11(0.00) , 185(0.20) , 190(0.00) , 780(0.00) , 823(0.00) ,
Poecilopsetta albomarginata	139(0.00) , 166(0.00) , 524(0.00) , 1143(0.75)
POLYNEMIDAE	
Polydactylus sp	70(0.40)
Polydactylus virginicus	47(5.20) , 62(0.00) , 69(0.00) , 88(0.60) , 101(1.71) , 220(0.20) , 286(0.80) , 289(1.40) , 292(0.40) , 293(0.60) , 435(18.40) , 438(1.20) , 439(11.20) , 442(1.60) , 446(2.20) , 664(0.80) , 665(1.10) , 668(1.60) , 961(1.80) , 968(2.10) , 995(1.80) , 999(1.20) , 1029(3.80) , 1030(1.60) , 1037(10.00) , 1038(1.80) , 1039(3.20) , 1058(1.00) , 1184(24.00) , 944(3.20) ,
Polydactylus oligodon	291(0.40) , 566(30.00) , 654(0.70)
POMACANTHIDAE	1131(0.04)
Holacanthus sp	1157(0.50)
Holacanthus ciliaris	478(0.96)
Holacanthus isabelita	651(0.60)
Holacanthus tricolor	10(0.60) , 1117(0.20) , 1122(0.00)
Pomacanthus sp.	478(0.24) , 1080(0.05)
Pomacanthus arcuatus	40(1.80) , 282(3.80) , 328(25.00) , 543(18.40) , 565(0.40) , 588(26.00) , 623(13.00) , 633(6.40) , 638(14.40) , 651(4.20) , 910(2.00) , 951(5.70) , 956(1.00) , 209(6.60) , 504(3.00) , 586(9.40) , 629(4.80) , 639(0.70) , 936(0.55) , 957(1.00) , 283(11.00) , 621(1.00) , 894(8.00) , 559(2.60) , 953(1.80) , 637(51.40) , 1117(11.60) , 1122(0.00) , 1198(16.00) , 1202(4.50) , 1204(10.40) , 1206(7.60)
Pomacanthus paru	149(20.00) , 163(111.00) , 282(3.00) , 316(11.20) , 580(5.14) , 583(9.80) , 586(7.20) , 648(2.30) , 798(31.20) , 884(3.00) , 901(8.40) , 1047(9.00) , 1081(20.00) , 161(13.20) , 283(7.60) , 582(3.00) , 588(2.80) , 863(2.20) , 953(12.40) , 181(12.00) , 584(9.00) , 894(5.80) , 504(21.30) , 1049(6.36) , 778(25.00) , 1117(22.20) , 1122(0.00) , 1198(16.80)
POLYMIXIIDAE	416(1.80)
Polymixia sp	6(14.40) , 11(51.60) , 7(5.20)
Polymixia nobilis	742(0.48)
Polymixia lowei	1042(0.50) , 1092(1.40) , 1093(32.78) , 1094(23.20) , 1101(0.50) , 1102(0.30) ,

Polymixia lowei (cont.)

1103(2.24) , 1119(3.60) , 107(4.20) , 114(3.20) , 115(2.00) , 139(11.00) ,
 146(72.75) , 175(13.20) , 188(0.40) , 190(0.14) , 193(513.00) , 200(0.93) ,
 218(1.20) , 392(0.00) , 396(9.60) , 417(2.60) , 526(0.45) , 577(2.00) ,
 579(52.36) , 702(1.00) , 808(0.00) , 810(2.80) , 823(3.40) , 879(9.30) ,
 120(14.20) , 164(2.40) , 189(2.40) , 199(31.20) , 219(2.00) , 398(0.50) ,
 576(2.40) , 594(1.30) , 809(24.00) , 878(63.90) , 145(5.60) , 191(0.50) ,
 393(0.00) , 578(3.20) , 812(3.00) , 185(2.52) , 525(0.00) , 217(0.80) ,
 780(39.00) , 1129(7.80) , 1130(14.00) , 1135(2.80) , 1136(10.20) , 1143(2.10) ,
 1194(3.50)

POMACENTRIDAE

Chromis sp.

500(0.48) , 507(2.08) , 508(0.60) , 574(0.00) , 789(0.80) , 813(0.50) ,
 954(0.23) , 1079(0.60) , 1114(0.00) , 1116(0.20) , 1155(0.30)

POMADASYIDAE

Anisotremus virginicus

12(1.80) , 71(0.90) , 322(15.60) , 441(0.00) , 442(5.40) , 694(2.50) ,
 709(7.80)
 40(1.20) , 52(1.00) , 118(0.60) , 234(2.20) , 565(2.00) , 566(15.00) ,
 623(7.80) , 650(2.00) , 651(12.00) , 927(1.60) , 957(4.40) , 1184(166.40) ,

Anisotremus surinamensis

87(1.40) , 629(1.20)

Conodon nobilis

13(1.40) , 25(4.60) , 39(0.00) , 47(8.00) , 51(0.16) , 60(2.40) ,
 59(10.80) , 85(22.00) , 87(8.00) , 130(4.60) , 134(2.84) , 135(1.00) ,
 169(2.88) , 174(1.50) , 205(1.20) , 216(1.60) , 220(19.00) , 221(1.50) ,
 233(1.80) , 265(72.00) , 266(2.40) , 286(5.00) , 291(0.20) , 322(2.00) ,
 547(4.46) , 566(12.00) , 625(12.00) , 625(3.00) , 626(16.00) , 653(3.00) ,
 665(24.20) , 666(3.60) , 700(2.40) , 701(26.40) , 783(2.60) , 816(1.50) ,
 856(2.00) , 920(3.40) , 928(2.00) , 941(0.70) , 943(1.40) , 974(12.40) ,
 993(6.00) , 994(7.80) , 995(0.90) , 998(1.40) , 1029(13.40) , 1030(1.60) ,
 1038(1.60) , 1039(0.80) , 1048(23.40) , 1052(2.00) , 1062(0.32) , 1105(0.90) ,
 1170(0.20)

Genyatremus luteus

68(6.60) , 74(8.50) , 76(1.00) , 84(4.00) , 87(8.00) , 948(20.80) ,
 961(1.40) , 971(12.00) , 972(0.60) , 993(0.74) , 995(0.10) , 1005(10.00) ,
 1054(0.60) , 1065(0.16) , 1075(8.80)

Haemulon sp

8(12.00) , 9(3.40) , 34(3.20) , 110(0.40) , 220(0.80) , 286(1.60) ,
 289(0.20) , 354(0.00) , 442(0.00) , 558(0.00) , 653(0.80)

Haemulon boschmae

5(0.40) , 110(0.00) , 112(1.20) , 125(206.80) , 127(122.00) , 135(76.80) ,
 136(80.40) , 143(71.00) , 144(1.00) , 147(1.60) , 148(30.00) , 149(75.00) ,
 154(24.00) , 156(8.80) , 166(16.00) , 181(0.00) , 195(1.00) , 196(2.60) ,
 207(4.80) , 208(7.20) , 213(0.00) , 216(0.00) , 226(0.24) , 231(0.00) ,
 232(0.00) , 227(18.00) , 251(0.00) , 256(4.80) , 258(9.60) , 259(10.00) ,
 264(16.00) , 267(4.20) , 274(4.80) , 277(3.00) , 279(0.32) , 280(0.00) ,
 282(31.20) , 312(0.00) , 318(32.40) , 319(14.00) , 320(0.00) , 321(0.80) ,
 330(6.60) , 331(4.00) , 347(0.10) , 348(9.10) , 367(0.00) , 408(1.40) ,
 426(37.60) , 458(2.40) , 460(0.00) , 466(1.60) , 467(22.00) , 476(0.00) ,
 478(6.00) , 479(70.40) , 485(19.60) , 505(155.20) , 508(0.40) , 532(0.40) ,
 557(0.20) , 562(2.00) , 567(0.50) , 574(3.00) , 575(8.40) , 580(3.09) ,
 582(4.20) , 584(88.00) , 589(3.20) , 608(0.00) , 614(0.00) , 619(3.20) ,
 623(52.00) , 627(2.00) , 628(3.00) , 629(0.40) , 634(2.00) , 650(6.00) ,
 662(0.12) , 696(0.20) , 698(4.00) , 740(0.40) , 744(30.00) , 746(142.20) ,
 749(0.30) , 750(20.00) , 753(18.80) , 762(11.20) , 763(13.33) , 764(0.40) ,
 771(4.80) , 772(62.60) , 783(20.80) , 785(8.10) , 786(114.00) , 787(46.20) ,
 791(0.00) , 794(72.50) , 795(52.00) , 797(7.00) , 801(51.40) , 803(4.80) ,
 804(0.60) , 807(29.60) , 814(4.80) , 815(5.50) , 816(0.90) , 830(0.30) ,
 834(3.20) , 836(29.25) , 866(0.80) , 874(1.80) , 876(1.00) , 877(4.80) ,
 881(0.80) , 884(14.00) , 885(0.20) , 886(7.80) , 890(37.00) , 891(0.00) ,
 894(1.40) , 919(0.00) , 922(0.60) , 926(6.60) , 936(4.36) , 937(6.60) ,
 938(4.80) , 939(0.20) , 949(6.10) , 950(0.60) , 951(0.90) , 952(7.00) ,

Haemuion boschmae(cont.)

953(3.60) , 955(0.90) , 957(5.40) , 958(1.00) , 963(0.32) , 978(0.00) ,
 981(3.20) , 990(0.28) , 1020(0.00) , 1022(1.20) , 1023(0.00) , 1025(0.00) ,
 1031(0.00) , 1079(25.00) , 1081(140.00) , 1082(0.12) , 1086(504.00) , 1088(0.32) ,
 1089(748.80) , 1090(0.60) , 1098(1.80) , 1100(312.00) , 1118(4.00) , 1124(5.40) ,
 1138(0.06) , 1152(0.24) , 1154(1.05) , 1159(27.72) , 1160(5.40) , 1189(3.50) ,
 1190(4.20) , 1191(0.44) , 1192(21.50) , 1198(28.00) , 1200(0.06) , 1201(0.20) ,
 1202(26.60) , 1204(14.80) , 1206(6.00)

Haemuion striatum

32(3.00) , 33(0.40) , 56(10.80) , 110(0.10) , 177(31.60) , 179(3.80) ,
 180(66.00) , 181(7.20) , 195(0.50) , 259(4.00) , 267(1.40) , 483(1.60) ,
 500(48.60) , 589(5.60) , 601(0.00) , 606(0.00) , 772(12.60) , 794(0.00) ,
 799(44.80) , 797(30.10) , 801(112.60) , 803(62.80) , 807(4.80) , 836(5.85) ,
 935(0.06) , 953(13.20) , 954(6.00) , 955(0.40) , 979(26.00) , 990(0.36) ,
 1046(0.40) , 1049(2.40) , 1100(0.24) , 1118(47.20) , 1121(0.22) , 1138(2.56) ,
 1155(0.00) , 1159(0.48) , 1160(4.80) , 1206(0.04) , 1210(1.30)

Haemuion aurolineatum

40(11.40) , 52(7.00) , 54(1.10) , 112(1.20) , 118(2.60) , 126(25.60) ,
 148(6.00) , 156(2.40) , 195(155.00) , 196(1.20) , 208(0.60) , 209(0.06) ,
 213(0.40) , 214(0.00) , 253(0.00) , 266(3.20) , 272(7.20) , 274(1.60) ,
 276(5.40) , 277(4.80) , 279(20.00) , 282(31.20) , 283(9.60) , 319(16.80) ,
 321(0.40) , 331(0.40) , 364(72.00) , 366(1.20) , 368(0.40) , 374(0.80) ,
 382(1.20) , 399(3.50) , 400(0.00) , 404(3.20) , 425(0.80) , 426(4.00) ,
 435(0.00) , 439(2.40) , 456(4.00) , 458(1.20) , 463(0.29) , 474(1.20) ,
 478(4.80) , 484(7.80) , 518(0.00) , 547(10.29) , 548(50.40) , 555(1.40) ,
 567(1.50) , 574(0.90) , 575(23.80) , 580(55.54) , 582(5.80) , 584(6.40) ,
 589(171.20) , 592(0.10) , 598(12.00) , 599(6.00) , 628(30.00) , 629(80.00) ,
 650(40.00) , 651(1.80) , 662(0.40) , 663(4.00) , 663(5.00) , 665(13.20) ,
 686(1.20) , 692(0.00) , 696(1.00) , 698(20.80) , 744(2.80) , 749(3.00) ,
 764(1.00) , 769(17.20) , 792(1.50) , 794(21.00) , 795(0.60) , 814(9.60) ,
 815(1.60) , 816(5.10) , 836(21.15) , 876(0.50) , 877(91.20) , 881(28.00) ,
 884(2.40) , 885(0.20) , 886(3.00) , 890(56.00) , 894(2.00) , 895(4.60) ,
 896(16.00) , 901(0.00) , 907(2.70) , 923(16.00) , 927(12.80) , 936(12.00) ,
 938(22.40) , 950(132.00) , 951(104.40) , 953(4.20) , 957(9.20) , 959(153.60) ,
 970(0.04) , 981(10.40) , 990(11.20) , 1000(0.40) , 1008(1.00) , 1009(0.00) ,
 1010(2.80) , 1081(362.00) , 1086(10.08) , 1100(42.00) , 1122(0.00) , 1124(2.40) ,
 1133(0.20) , 1138(15.00) , 1140(0.20) , 1144(1.80) , 1152(2.00) , 1154(0.03) ,
 1160(3.00) , 1189(7.50) , 1190(1.20) , 1191(2.02) , 1192(35.00) , 1197(4.20) ,
 1198(103.60) , 1199(64.80) , 1200(30.00) , 1201(5.00) , 1202(228.20) , 1204(42.40) ,
 1206(4.20) , 1207(0.08) , 1208(4.00) , 1210(0.92)

Haemuion steindachneri

40(4.40) , 52(13.00) , 60(2.40) , 95(3.60) , 103(0.00) , 110(0.20) ,
 112(1.20) , 118(1.80) , 123(0.72) , 125(31.40) , 135(57.60) , 144(0.10) ,
 147(1.60) , 148(37.20) , 154(1.20) , 184(1.80) , 196(4.00) , 208(0.80) ,
 220(47.00) , 221(1.20) , 233(0.60) , 234(2.40) , 256(1.00) , 259(4.00) ,
 265(5.20) , 266(2.80) , 286(0.20) , 312(33.00) , 331(26.00) , 337(5.60) ,
 350(0.20) , 352(0.40) , 364(4.80) , 366(20.00) , 382(1.80) , 383(4.80) ,
 403(0.40) , 427(2.40) , 435(46.00) , 436(17.50) , 439(8.00) , 441(0.60) ,
 442(4.00) , 443(4.80) , 456(2.40) , 466(4.80) , 467(30.00) , 471(25.80) ,
 474(16.00) , 484(75.40) , 485(78.00) , 492(2.10) , 536(0.90) , 537(1.20) ,
 554(10.40) , 557(17.60) , 559(0.20) , 562(5.00) , 564(10.91) , 567(3.00) ,
 619(0.00) , 623(24.60) , 626(20.00) , 627(8.00) , 628(0.90) , 629(4.00) ,
 634(2.00) , 643(0.20) , 650(65.00) , 651(153.00) , 652(0.60) , 663(7.50) ,
 665(11.00) , 672(4.00) , 673(1.20) , 676(3.60) , 677(0.40) , 679(0.08) ,
 681(0.60) , 686(3.00) , 692(0.00) , 699(4.60) , 701(2.20) , 705(0.60) ,
 713(8.00) , 744(9.40) , 749(12.00) , 750(1.00) , 763(0.33) , 764(0.10) ,
 769(39.60) , 786(77.00) , 807(22.40) , 814(0.60) , 830(9.00) , 834(11.20) ,
 836(4.50) , 842(4.80) , 866(1.00) , 873(9.00) , 881(0.80) , 904(0.20) ,
 906(1.80) , 926(0.00) , 927(102.40) , 938(1.80) , 949(0.88) , 950(0.12) ,
 951(15.00) , 957(1.60) , 959(3.00) , 962(12.00) , 972(2.00) , 977(0.28) ,
 978(0.12) , 981(13.60) , 990(16.80) , 1000(4.40) , 1007(0.40) , 1008(0.76) ,

Haemulon steindachneri (cont.)												
1010	0.00	1021	0.60	1039	12.00	1081	40.00	1082	0.66	1086	39.20	
1100	30.00	1106	34.20	1148	69.30	1157	0.80	1159	0.72	1160	9.00	
1184	35.20	1185	0.30									
51	0.27	52	13.50	60	5.60	126	19.20	161	2.20	163	29.00	
239	1.00	277	0.80	312	1.20	342	1.20	504	4.40	566	9.60	
623	6.40	629	3.20	650	14.00	651	21.60	884	0.80	927	1.40	
950	3.00	953	2.40	957	1.00	972	2.20	1047	2.40	1049	1.20	
1081	3.30	1117	2.00	1122	0.00	1197	2.80	1202	1.40	1207	0.16	
Haemulon macrostomum												
112	1.20	377	0.30	794	0.00							
118	4.20	485	39.00									
125	0.00	126	16.00	127	23.00	148	1.80	161	2.70	163	9.60	
180	2.20	479	29.00	665	283.80	797	2.10	801	12.20	803	13.60	
815	16.50	953	5.40	981	27.20	990	28.00	1079	13.20	1080	7.83	
1081	40.00	1116	0.80	1117	0.20	1122	0.00	1124	0.00	1186	2.00	
Haemulon chrysargyreum												
127	0.50	163	0.20	259	0.20	507	135.23	508	3.40	933	0.30	
Haemulon scirrius												
163	18.40											
483	24.00	499	4.20	500	3.84	505	40.00	772	337.60			
799	20.00	801	28.80	1081	2.00	1126	10.00					
1081	3.00											
234	0.40	419	3.00	452	0.60							
13	128.00	25	9.00	27	56.20	39	8.20	40	0.30	51	0.13	
52	6.00	60	2.10	88	0.80	123	14.16	124	6.40	130	3.60	
132	1.47	133	11.20	134	143.00	135	154.60	142	54.50	151	2.80	
154	7.20	220	0.10	230	66.80	231	63.00	232	3.20	233	29.60	
234	25.60	252	3.00	253	0.80	254	1.20	256	3.30	259	4.20	
265	10.40	307	122.40	321	1.60	326	5.40	327	9.75	336	3.60	
337	6.20	352	0.20	368	0.40	434	21.80	442	3.00	462	1.40	
464	2.50	484	33.80	485	55.20	486	16.00	488	6.84	547	9.60	
548	8.00	549	3.00	555	0.80	556	2.73	565	1.60	609	50.00	
622	1.00	623	29.20	626	1440.00	643	1.00	694	0.50	731	0.20	
754	1.60	841	0.40	842	0.90	854	3.70	920	0.80	926	19.60	
927	1264.00	938	2.80	942	30.00	962	285.00	971	5.00	972	0.50	
974	2.00	1077	5.00	1082	0.78	1086	137.20	1091	0.40	1099	3.10	
1106	9.00	1107	1.00	1163	0.10	1176	0.50	1184	4.80			
Orthopristis chrysoptera												
404	7.80											
449	6.40											
Orthopristis poeyi												
47	5.20	68	1.60	220	0.20	339	2.40	566	1.00	625	3.60	
722	6.00	968	140.00	1039	8.00	51	1.07	291	0.60	609	0.40	
944	1.20	142	1.00	699	11.60	560	0.30	971	0.40	1169	1.20	
Pomadourys croceus												
285	0.30	726	8.00	824	1.30	1056	56.00	329	10.20	1053	6.00	
765	7.50	1134	3.00	1210	0.72							
POMATOUSIDAE												
Pomatomus saltatrix												
27	2.00	39	9.40	47	2.40	59	1.60	71	2.63	74	2.00	
78	5.40	90	2.00	93	6.20	94	3.20	95	5.60	96	15.20	
102	2.20	112	2.60	153	1.80	231	0.00	252	3.20	322	1.60	
357	10.00	406	19.80	408	25.00	409	29.09	447	7.20	452	2.00	
548	2.40	550	1.50	554	39.00	557	1.00	651	4.80	668	12.00	
705	7.00	707	12.80	708	1.60	719	2.40	720	2.60	756	3.43	
840	5.70	848	1.40	854	5.70	856	5.00	872	6.30	926	3.40	
927	2.80	940	1.60	942	5.40	988	4.40	995	3.40	997	11.00	
1002	11.80	1003	10.60	1005	15.20	1006	6.00	1015	24.00	1017	22.60	
1018	2.00	1019	3.20	1021	2.00	1022	4.50	1026	3.20	1035	2.00	

Pomatomus saltatrix (cont.)

1051(3.40) ,1050(1.50) ,1055(1.20) ,1056(2.00) ,1057(5.80) ,1058(1.50) ,
 1059(6.00) ,1060(6.40) ,1061(1.00) ,1068(5.80) ,1074(6.00) ,1075(9.00) ,
 1100(8.40) ,1145(2.12)
 11(0.00)

Scombrops sp

490(96.00)

PERCICHTHYDAE

PRIACANIHIDAE

Cooperius doops

158(0.80) , 159(0.30) , 175(0.60) , 192(12.00) , 199(2.20) , 1127(0.20) ,

Priacanthus sp

22(0.00) , 138(0.00) , 207(0.00) , 209(0.00) , 296(0.80)
 8(2.00) , 9(3.00) , 12(24.00) , 13(1.60) , 17(5.40) , 18(8.86) ,
 20(3.20) , 21(1.20) , 22(0.20) , 31(6.40) , 32(7.00) , 35(0.20) ,
 36(0.60) , 52(6.00) , 53(6.80) , 54(1.10) , 57(1.40) , 58(7.00) ,
 64(0.40) , 65(0.60) , 66(2.00) , 72(16.80) , 73(2.00) , 90(0.90) ,
 104(3.60) , 106(1.00) , 107(1.35) , 110(2.60) , 112(1.00) , 113(0.20) ,
 118(3.40) , 122(11.20) , 123(13.92) , 125(9.80) , 127(27.00) , 136(0.90) ,
 138(4.00) , 140(15.50) , 143(19.00) , 144(9.60) , 147(12.00) , 148(12.80) ,
 148(0.60) , 157(13.20) , 161(4.50) , 163(159.80) , 166(0.40) , 166(4.00) ,
 168(89.60) , 170(18.60) , 171(1.60) , 172(8.40) , 173(9.20) , 174(0.90) ,
 177(0.60) , 180(1.20) , 182(1.20) , 183(1.40) , 185(0.40) , 186(24.30) ,
 187(0.40) , 188(2.80) , 189(8.70) , 195(46.00) , 195(41.00) , 196(4.80) ,
 197(23.40) , 203(3.00) , 204(1.20) , 205(4.40) , 207(9.00) , 208(2.80) ,
 209(2.20) , 210(2.60) , 213(2.40) , 214(2.20) , 215(1.40) , 222(0.89) ,
 224(8.00) , 225(2.20) , 227(8.40) , 233(1.00) , 234(30.80) , 236(2.00) ,
 254(10.20) , 255(2.00) , 256(6.60) , 256(0.48) , 258(76.80) , 259(12.00) ,
 263(0.80) , 265(0.80) , 266(11.60) , 266(0.00) , 267(2.40) , 268(6.00) ,
 268(0.28) , 269(1.20) , 271(14.40) , 274(1.20) , 274(0.00) , 275(5.00) ,
 276(22.40) , 277(6.40) , 279(0.80) , 285(3.00) , 299(2.73) , 300(1.20) ,
 305(0.00) , 312(8.40) , 313(5.00) , 314(0.48) , 316(1.40) , 317(45.60) ,
 318(1.80) , 319(14.00) , 320(2.00) , 321(1.60) , 302(7.20) , 329(0.90) ,
 330(5.00) , 330(5.00) , 331(6.00) , 333(0.20) , 334(7.60) , 336(2.40) ,
 337(0.00) , 340(0.60) , 341(0.40) , 345(0.40) , 346(0.10) , 347(0.80) ,
 348(38.50) , 349(1.20) , 350(2.60) , 351(0.50) , 362(1.00) , 363(0.40) ,
 366(8.00) , 367(0.40) , 368(1.20) , 373(2.60) , 381(4.00) , 382(1.20) ,
 383(2.40) , 399(3.00) , 403(0.00) , 408(105.00) , 409(17.64) , 414(2.20) ,
 423(1.20) , 424(0.50) , 456(1.60) , 458(10.20) , 460(16.50) , 463(5.71) ,
 464(0.50) , 466(24.00) , 467(4.00) , 469(175.50) , 470(1.10) , 471(25.80) ,
 472(0.00) , 473(3.60) , 474(4.40) , 478(33.60) , 480(18.20) , 481(0.00) ,
 481(3.00) , 483(7.20) , 485(78.00) , 486(1.60) , 491(52.00) , 492(37.80) ,
 493(4.11) , 494(2.10) , 495(9.00) , 496(35.00) , 499(2.40) , 501(3.00) ,
 502(3.09) , 504(74.60) , 512(7.38) , 513(8.40) , 514(0.20) , 515(6.48) ,
 517(22.00) , 518(1.00) , 519(8.00) , 520(5.00) , 521(2.00) , 527(6.40) ,
 528(0.80) , 530(0.20) , 531(5.60) , 532(2.20) , 533(1.00) , 535(5.80) ,
 536(21.00) , 537(24.00) , 548(6.40) , 550(2.50) , 552(1.00) , 553(5.00) ,
 555(5.60) , 556(1.82) , 557(44.00) , 560(0.30) , 561(0.50) , 562(25.00) ,
 563(65.00) , 564(32.73) , 565(13.60) , 566(2.60) , 567(2.00) , 569(18.00) ,
 571(4.80) , 574(0.44) , 575(12.60) , 581(10.00) , 583(2.00) , 585(4.20) ,
 587(1.20) , 590(15.00) , 592(1.80) , 595(4.80) , 596(1.60) , 599(10.00) ,
 602(0.60) , 603(0.60) , 606(1.20) , 611(1.60) , 614(2.00) ,
 617(21.00) , 620(0.80) , 621(5.80) , 622(1.40) , 623(85.80) , 626(12.00) ,
 627(1.20) , 628(6.00) , 629(20.80) , 630(0.60) , 631(1.50) , 634(3.50) ,
 643(2.00) , 645(1.00) , 646(51.00) , 647(1.60) , 648(4.60) , 649(51.60) ,
 650(5.00) , 651(4.20) , 652(0.60) , 658(7.00) , 659(12.00) , 661(0.40) ,
 662(3.00) , 663(5.00) , 672(1.60) , 678(1.05) , 679(2.00) , 686(2.40) ,
 696(2.00) , 698(9.60) , 713(4.00) , 737(2.60) , 744(30.00) , 749(7.30) ,
 750(6.00) , 761(2.30) , 762(3.20) , 763(2.33) , 764(0.80) , 765(14.00) ,

Pristigenus arenatus (cont.)

769 (	5.20)	771 (	2.74)	778 (	11.00)	783 (	1.60)	784 (	2.50)	785 (	19.40)
786 (	5.00)	787 (	5.80)	788 (	28.00)	792 (	1.50)	794 (	12.00)	795 (	1.40)
799 (	0.00)	801 (	4.50)	803 (	22.80)	804 (	0.96)	805 (	9.00)	807 (	0.40)
816 (	2.25)	817 (	0.90)	818 (	0.40)	824 (	0.30)	825 (	0.24)	828 (	6.00)
830 (	20.10)	831 (	1.80)	832 (	0.00)	833 (	1.44)	834 (	7.00)	835 (	3.30)
836 (	12.00)	837 (	12.00)	839 (	15.20)	840 (	42.00)	842 (	5.10)	845 (	1.80)
856 (	0.60)	862 (	0.30)	863 (	12.20)	864 (	1.20)	865 (	3.40)	866 (	20.00)
867 (	1.80)	870 (	2.00)	871 (	6.90)	874 (	1.20)	876 (	13.40)	877 (	1.20)
881 (	2.00)	881 (	0.00)	883 (	0.00)	886 (	1.80)	888 (	0.60)	890 (	13.00)
893 (	0.90)	895 (	0.40)	896 (	3.00)	901 (	7.00)	905 (	1.00)	904 (	7.80)
906 (	0.90)	906 (	0.00)	907 (	0.90)	914 (	0.40)	915 (	0.60)	921 (	5.60)
922 (	13.60)	923 (	44.00)	926 (	5.20)	927 (	67.20)	929 (	21.60)	930 (	7.88)
931 (	11.20)	932 (	14.00)	933 (	3.00)	934 (	48.00)	935 (	2.40)	936 (	12.00)
938 (	4.40)	939 (	0.40)	950 (	4.40)	951 (	27.20)	952 (	0.80)	953 (	27.60)
955 (	1.00)	956 (	17.60)	959 (	1.80)	962 (	48.00)	978 (	8.80)	981 (	13.60)
982 (	1.60)	988 (	1.40)	990 (	21.00)	991 (	0.50)	997 (	0.50)	1000 (	4.00)
1008 (	5.00)	1010 (	1.80)	1014 (	7.40)	1017 (	1.40)	1021 (	23.00)	1022 (	1.60)
1026 (	42.00)	1027 (	10.00)	1028 (	1.10)	1046 (	0.40)	1049 (	3.12)	1050 (	0.30)
1079 (	14.00)	1080 (	26.09)	1081 (	104.00)	1082 (	7.50)	1090 (	1.20)	1095 (	2.20)
1096 (	15.80)	1098 (	0.60)	1099 (	1.28)	1099 (	0.30)	1100 (	4.80)	1104 (	5.00)
1106 (	190.80)	1113 (	102.60)	1114 (	122.82)	1115 (	11.00)	1116 (	4.50)	1117 (	19.00)
1118 (	0.80)	1122 (	0.00)	1132 (	0.00)	1133 (	2.20)	1137 (	4.60)	1138 (	0.90)
1139 (	25.40)	1140 (	2.83)	1144 (	0.52)	1146 (	4.30)	1148 (	10.86)	1152 (	18.80)
1154 (	2.18)	1156 (	2.40)	1157 (	0.84)	1158 (	2.80)	1160 (	2.40)	1161 (	0.30)
1174 (	2.00)	1175 (	0.02)	1176 (	0.30)	1177 (	3.86)	1178 (	50.20)	1183 (	0.40)
1184 (	5.00)	1186 (	1.78)	1187 (	3.10)	1188 (	4.00)	1190 (	2.50)	1191 (	1.80)
1201 (	0.10)	1207 (	2.00)	1208 (	24.00)	1209 (	1.20)	1210 (	0.50)		
160 (0.60)	196 (0.00)	264 (72.00)	288 (0.00)	426 (4.00)	776 (2.60)

Pristigenus alta

517 (6.00)	592 (0.50)	1131 (0.40)	1155 (0.00)				
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RACHYCENTRIDAE

Rachycentron canadus

104 (2.60)	113 (0.10)	247 (1.00)	352 (1.00)	587 (2.80)	645 (0.80)
670 (	2.00)	921 (	0.10)	935 (	4.40)	1167 (	5.00)	1205 (	1.00)		

K A Y S

ANACANTHOBATIIDAE

Springeria dubia

Anacanthobatis sp.

Dasysattis sp

612 (	5.00)	613 (	4.75)	702 (	0.40)						
925 (	0.75)	800 (	1.00)								
1040 (	0.06)										
421 (	0.40)	925 (	0.30)	1142 (	0.15)						
91 (	0.00)	322 (	20.00)	399 (	120.00)	517 (	240.00)	528 (	7.00)	635 (	50.00)
669 (	6.00)	797 (	2.80)								
1 (	504.00)	63 (	11.00)	70 (	0.00)	244 (	55.80)	245 (	10.80)	339 (	90.00)
356 (	180.00)	369 (	54.00)	371 (	6.40)	389 (	50.00)	985 (	6.00)	1002 (	36.00)
1006 (	56.00)										

Dasysattis guttata

2 (	7.70)	46 (	20.20)	47 (	8.40)	87 (	4.00)	130 (	13.00)	169 (	0.96)
174 (	0.70)	220 (	60.00)	243 (	22.80)	262 (	20.40)	540 (	0.80)	544 (	2.00)
558 (	56.00)	559 (	6.00)	667 (	2.00)	946 (	2.00)	947 (	14.00)	948 (	54.00)
961 (	126.00)	965 (	66.20)	975 (	16.00)	985 (	70.00)	993 (	0.60)	995 (	34.00)
996 (	14.00)	997 (	1.80)	1002 (	2.00)	1037 (	22.00)	1058 (	18.00)	1075 (	34.00)
1105 (	15.40)	1149 (	10.00)	1167 (	50.00)						

Dasysattis americana

40 (	7.60)	51 (	10.13)	68 (	6.60)	74 (	10.00)	75 (	90.00)	181 (	100.00)
255 (	1.80)	732 (	1.70)	807 (	8.00)	943 (	1.40)	972 (	8.00)	973 (	2.80)
982 (	4.00)	1004 (	6.50)	1023 (	9.00)	1031 (	1.80)	1059 (	12.50)	1097 (	17.00)
1105 (	4.00)	1137 (	6.00)	1145 (	10.59)	1167 (	34.00)	1171 (	7.50)	1172 (	3.00)
1182 (	26.09)	1188 (	2.00)								
115 (	0.00)	392 (	0.60)	1043 (	0.50)	391 (	0.30)	742 (	0.48)	1103 (	5.60)

Gurgesiella atlantica

Cynoscion acoupa (cont.)

946(14.40) , 951(2.10) , 958(0.40) , 968(43.40) , 985(15.84) , 993(17.00) ,
 999(0.60) , 1002(19.60) , 1004(2.20) , 1009(2.00) , 1015(10.20) , 1017(4.00) ,
 1021(18.00) , 1021(7.20) , 1051(3.60) , 1050(14.10) , 1062(10.00) , 1169(1.40) ,

Cynoscion similis

9(0.80) , 64(1.80) , 104(2.40) , 112(1.80) , 134(1.56) , 312(28.80) ,
 435(5.40) , 443(16.00) , 444(8.00) , 445(25.00) , 452(5.80) , 547(34.80) ,
 666(24.00) , 668(3.00) , 673(9.00) , 676(40.80) , 677(5.20) , 701(8.80) ,
 707(17.60) , 708(14.00) , 709(1.40) , 720(8.40) , 726(33.60) , 729(11.00) ,
 997(0.80) , 998(1.80) , 1025(4.50) , 1026(3.00) , 1031(1.80) , 1055(34.40) ,
 1056(15.20) , 1084(16.00) , 1084(14.00) , 1088(2.20) , 1091(6.40)

Cynoscion jamaicensis

37(2.50) , 51(6.67) , 60(19.60) , 29(25.20) , 59(41.20) , 103(111.60) ,
 112(0.40) , 113(1.00) , 121(6.40) , 122(3.00) , 123(1.44) , 124(26.00) ,
 132(0.00) , 133(15.40) , 134(3.00) , 134(15.00) , 173(3.80) , 174(1.60) ,
 174(0.80) , 220(2.40) , 221(0.60) , 231(1.60) , 232(3.20) , 240(1.20) ,
 242(3.00) , 242(0.00) , 243(0.20) , 244(16.80) , 250(0.10) , 252(1.40) ,
 253(3.60) , 262(0.64) , 291(4.00) , 292(0.00) , 293(1.00) , 299(2.73) ,
 307(57.60) , 308(0.00) , 322(43.00) , 326(0.30) , 329(2.10) , 330(31.60) ,
 345(2.60) , 352(0.80) , 354(10.00) , 357(6.00) , 365(0.20) , 366(10.00) ,
 367(1.60) , 368(3.60) , 370(7.20) , 383(3.20) , 384(13.80) , 385(12.60) ,
 387(25.00) , 388(0.60) , 389(1.40) , 400(43.20) , 401(10.80) , 403(35.20) ,
 404(245.00) , 404(0.00) , 406(15.30) , 408(96.00) , 409(281.27) , 410(128.60) ,
 415(8.60) , 427(145.80) , 429(54.40) , 430(48.00) , 431(4.60) , 432(2.80) ,
 433(38.40) , 433(52.40) , 434(123.00) , 435(487.60) , 437(12.50) , 438(11.20) ,
 438(34.00) , 439(56.00) , 440(125.00) , 441(103.00) , 442(21.00) , 442(1.60) ,
 443(176.00) , 444(272.00) , 445(105.00) , 446(7.00) , 447(0.60) , 449(76.80) ,
 449(38.40) , 464(5.00) , 466(33.60) , 558(0.80) , 559(2.20) , 609(1.60) ,
 617(3.60) , 618(4.11) , 624(6.40) , 625(30.00) , 625(14.40) , 626(148.00) ,
 627(2.00) , 632(14.40) , 633(256.00) , 635(2.10) , 642(20.57) , 644(0.40) ,
 652(3.40) , 653(2.00) , 654(3.40) , 655(127.60) , 657(6.00) , 662(0.90) ,
 664(34.40) , 665(105.60) , 666(8.40) , 667(1.60) , 668(0.80) , 671(4.29) ,
 672(2.80) , 673(15.00) , 676(120.00) , 677(7.60) , 678(1.50) , 679(2.80) ,
 686(5.40) , 687(8.80) , 687(0.36) , 688(12.00) , 689(40.00) , 691(15.00) ,
 692(1.20) , 693(22.20) , 694(20.50) , 694(11.20) , 695(20.60) , 704(4.00) ,
 705(112.00) , 706(175.00) , 707(132.80) , 708(278.00) , 709(43.80) , 710(18.00) ,
 711(139.60) , 712(14.40) , 713(36.00) , 714(18.75) , 715(55.00) , 716(22.50) ,
 719(122.00) , 720(51.20) , 721(72.60) , 722(36.00) , 723(52.00) , 724(42.00) ,
 725(34.00) , 726(40.00) , 727(4.00) , 728(64.00) , 729(128.00) , 730(33.00) ,
 731(3.00) , 738(9.20) , 754(0.60) , 847(0.48) , 854(2.70) , 856(14.60) ,
 860(2.00) , 861(2.10) , 872(2.10) , 920(10.00) , 936(6.55) , 940(10.80) ,
 944(3.70) , 971(3.40) , 972(0.18) , 974(0.60) , 975(86.40) , 969(2.50) ,
 982(0.30) , 989(8.80) , 997(1.80) , 998(0.40) , 998(3.24) , 1004(0.70) ,
 1005(92.50) , 1019(5.40) , 1021(1.00) , 1021(3.00) , 1022(49.80) , 1023(35.40) ,
 1025(0.90) , 1026(1137.00) , 1028(1.85) , 1029(22.80) , 1031(20.00) , 1036(1.60) ,
 1038(3.00) , 1038(70.80) , 1051(16.80) , 1052(53.90) , 1053(24.00) , 1055(19.60) ,
 1056(94.20) , 1057(133.80) , 1058(27.00) , 1059(11.00) , 1062(40.00) , 1064(27.90) ,
 1067(20.30) , 1068(9.00) , 1068(30.40) , 1069(9.60) , 1070(5.60) , 1071(11.68) ,
 1072(7.20) , 1073(3.30) , 1074(388.00) , 1075(43.20) , 1076(4.50) , 1077(12.00) ,
 1082(3.00) , 1140(26.67) , 1191(5.76)

Cynoscion microlepidotus

51(5.60) , 52(36.00) , 231(40.00) , 360(4.63) , 538(7.80) , 539(0.40) ,
 540(9.80) , 541(11.47) , 543(16.00) , 566(0.60) , 699(7.00) , 700(8.00) ,

Cynoscion leiarchus

88(9.60) , 130(5.40) , 240(22.40) , 242(5.00) , 245(11.00) , 250(1.00) ,
 262(0.60) , 289(1.80) , 291(0.60) , 292(2.40) , 369(1.20) , 538(1.80) ,
 540(13.00) , 546(9.60) , 549(15.00) , 560(1.80) , 676(26.40) , 847(2.64) ,
 854(16.00) , 860(3.00) , 861(42.00) , 994(21.60) , 999(1.80) , 1002(0.80) ,
 1007(1.20) , 1058(7.60) , 1059(10.00) , 1071(2.70) , 1072(3.40) , 1073(16.70) ,
 1169(1.80) , 1170(2.80) , 1179(1.60)

Cynoscion notius 89(14.40) , 90(25.60) , 91(4.00)
 89(4.20) , 90(6.40) , 91(30.00) , 96(1.80) , 118(46.80) , 240(3.36) ,
Cynoscion steindachneri 244(4.20) , 446(19.60) , 447(4.80) , 448(15.00) , 454(21.60) , 994(28.80) ,
 999(0.60) , 1003(63.68) , 1009(0.60) , 1017(0.40) , 1021(42.00) , 1063(2.88) ,

Cynoscion virescens 1(76.00) , 16(0.20) , 38(17.50) , 43(5.80) , 46(7.00) , 70(29.60) ,
 74(19.20) , 84(126.00) , 86(304.60) , 88(11.40) , 92(96.00) , 95(78.40) ,
 98(6.60) , 242(4.00) , 261(0.60) , 286(17.00) , 309(38.80) , 322(12.00) ,
 356(46.00) , 358(17.08) , 371(39.20) , 386(80.00) , 402(12.80) , 407(8.60) ,
 438(2.00) , 446(18.00) , 559(7.40) , 654(10.40) , 675(22.40) , 151(11.50) ,
 39(8.20) , 47(4.60) , 76(59.60) , 87(61.40) , 94(15.60) , 215(3.20) ,
 262(2.64) , 311(1.20) , 357(5.00) , 375(7.40) , 404(25.80) , 442(3.00) ,
 637(5.00) , 676(16.60) , 25(45.60) , 71(9.90) , 91(16.80) , 244(40.32) ,
 322(39.00) , 389(9.40) , 538(6.80) , 44(4.20) , 96(36.80) , 369(31.00) ,
 665(3.60) , 85(135.60) , 433(2.80) , 308(141.00) , 694(8.00) , 717(4.50) ,
 722(10.60) , 725(10.60) , 728(6.40) , 944(11.00) , 947(2.40) , 961(93.00) ,
 967(15.00) , 975(8.40) , 987(7.00) , 993(52.20) , 995(5.40) , 1002(86.00) ,
 1003(8.60) , 1005(45.00) , 1015(12.60) , 1018(26.00) , 1039(4.00) , 1053(8.00) ,
 1055(1.60) , 1057(10.00) , 1059(3.00) , 1064(2.86) , 1068(7.20) , 695(0.60) ,
 723(5.40) , 941(13.80) , 948(15.00) , 971(0.50) , 987(0.50) , 999(3.60) ,
 1005(8.80) , 1017(1.80) , 1051(1.60) , 1056(2.60) , 1060(6.40) , 1069(8.00) ,
 719(10.00) , 946(14.00) , 985(46.60) , 1002(1.68) , 1036(4.32) , 1058(4.00) ,
 727(3.00) , 995(22.80) , 1054(2.00) , 965(19.20) , 1065(3.90) , 1006(0.96) ,
 1070(7.80) , 1182(7.43)
Equetus sp. 127(1.00)

Equetus lanceolatus 316(0.00) , 349(0.00) , 567(1.00) , 638(1.20) , 769(1.80) , 803(0.80) ,
 833(0.40) , 953(0.12) , 981(0.80) , 990(0.70) , 1100(1.44) , 1114(0.00) ,
 152(0.10) , 1155(0.24) , 1210(0.04)

Isopisthus parvipinnis 1(35.20) , 2(0.80) , 3(9.80) , 15(4.80) , 25(78.00) , 38(110.40) ,
 44(3.60) , 46(12.40) , 70(2.40) , 79(12.80) , 82(2.20) , 83(48.00) ,
 84(84.00) , 85(506.00) , 86(192.00) , 87(85.20) , 87(0.00) , 88(0.20) ,
 88(0.80) , 91(26.00) , 92(4.00) , 94(7.80) , 95(21.60) , 96(15.60) ,
 98(28.00) , 101(17.14) , 167(0.72) , 240(1.50) , 242(55.00) , 243(0.20) ,
 244(142.20) , 250(0.20) , 261(8.56) , 262(16.80) , 286(0.20) , 294(0.56) ,
 295(0.80) , 354(11.40) , 356(1.40) , 360(9.26) , 369(0.00) , 371(2.40) ,
 375(0.00) , 378(0.80) , 386(60.00) , 389(0.00) , 400(2.40) , 402(2.00) ,
 405(0.00) , 406(1.70) , 446(14.00) , 544(1.20) , 639(11.20) , 640(9.60) ,
 641(13.60) , 654(7.00) , 655(6.80) , 668(2.00) , 669(0.60) , 675(58.80) ,
 676(6.00) , 699(49.00) , 700(22.40) , 941(35.00) , 948(150.80) , 961(219.60) ,
 961(10.80) , 965(14.00) , 967(1.70) , 967(12.00) , 971(5.20) , 987(8.00) ,
 993(7.50) , 995(20.40) , 999(3.60) , 999(4.80) , 1002(33.40) , 1003(9.60) ,
 1005(45.00) , 1006(27.20) , 1018(14.40) , 1030(28.60) , 1036(3.80) , 1037(6.00) ,
 1039(24.00) , 1050(0.12) , 1060(10.40) , 1061(12.80) , 1065(7.20) , 1069(12.80) ,
 1070(3.20) , 1072(0.44) , 1075(36.00) , 1076(7.20)

Larimus breviceps 14(0.00) , 25(0.80) , 51(0.40) , 68(0.20) , 71(3.60) , 84(15.40) ,
 87(6.60) , 95(15.00) , 130(32.40) , 132(0.00) , 220(0.50) , 244(9.66) ,
 261(0.30) , 261(0.00) , 262(0.40) , 262(0.00) , 286(8.20) , 292(0.00) ,
 294(0.40) , 339(0.40) , 371(2.40) , 386(22.60) , 438(4.20) , 439(6.40) ,
 442(6.40) , 464(3.00) , 538(0.00) , 539(1.40) , 544(1.20) , 545(2.50) ,
 559(1.60) , 625(0.00) , 655(3.00) , 699(42.00) , 700(20.80) , 732(0.00) ,
 948(15.60) , 965(4.00) , 968(14.00) , 993(3.00) , 1005(5.00) , 1030(7.60) ,
 1036(2.40) , 1037(8.00) , 1039(49.60) , 1075(7.20) , 1076(0.60)

Lonchurus lanceolatus 308(16.00)
Macrrodon sp. 369(10.40) , 484(52.00)

Macrrodon ancylodon 2(6.60) , 3(0.00) , 14(0.00) , 15(2.40) , 25(0.80) , 25(113.20) ,
 38(98.20) , 43(2.40) , 46(32.00) , 51(19.20) , 52(4.00) , 61(2.40) ,
 29(0.00) , 62(43.80) , 62(6.00) , 68(21.60) , 68(4.80) , 69(4.60) ,
 70(20.80) , 74(69.20) , 74(1.50) , 75(4.60) , 75(3.20) , 76(21.00) ,

Macrodon ancylodon (cont.)

76(	3.20)	, 79(	215.00)	, 82(	16.00)	, 84(	198.80)	, 85(	660.00)	, 86(	348.00)	,
87(	115.80)	, 87(	0.00)	, 88(	4.20)	, 88(	0.00)	, 91(	46.00)	, 92(	4.00)	,
94(	13.20)	, 95(	50.40)	, 96(	50.40)	, 96(	8.40)	, 98(	56.00)	, 101(	42.86)	,
102(	0.80)	, 244(	21.00)	, 250(	0.00)	, 251(	1.80)	, 261(	2.40)	, 262(	7.20)	,
307(	32.40)	, 308(	240.00)	, 309(	6.80)	, 310(	52.00)	, 311(	2.40)	, 312(	0.00)	,
322(	78.00)	, 339(	37.60)	, 339(	42.20)	, 340(	0.30)	, 354(	37.50)	, 354(	60.00)	,
356(	112.00)	, 358(	110.77)	, 360(	39.09)	, 365(	3.20)	, 365(	0.40)	, 369(	24.80)	,
371(	84.00)	, 375(	115.20)	, 378(	4.80)	, 386(	380.00)	, 387(	3.00)	, 389(	24.00)	,
407(	9.00)	, 403(	1.60)	, 446(	54.60)	, 448(	30.00)	, 450(	2.20)	, 453(	16.67)	,
454(	374.40)	, 539(	2.00)	, 544(	22.40)	, 545(	28.00)	, 624(	54.40)	, 625(	6.00)	,
625(	18.00)	, 639(	23.80)	, 640(	64.00)	, 641(	41.00)	, 654(	5.60)	, 655(	84.00)	,
665(	17.60)	, 668(	7.20)	, 675(	490.00)	, 690(	1.60)	, 699(	7.00)	, 700(	4.80)	,
715(	3.00)	, 720(	36.80)	, 729(	8.00)	, 730(	23.00)	, 732(	14.60)	, 732(	3.20)	,
733(	8.40)	, 860(	1.60)	, 941(	60.20)	, 947(	37.80)	, 948(	299.00)	, 961(	313.20)	,
965(	22.00)	, 967(	43.00)	, 967(	2.00)	, 968(	8.40)	, 971(	125.00)	, 972(	1.20)	,
975(	22.20)	, 985(	40.60)	, 987(	82.40)	, 993(	130.50)	, 995(	26.40)	, 998(	0.40)	,
999(	15.60)	, 1002(	86.80)	, 1005(	305.00)	, 1006(	189.60)	, 1018(	56.00)	, 1037(	16.00)	,
1039(	2.40)	, 1054(	36.00)	, 1061(	15.20)	, 1061(	16.60)	, 1065(	10.20)	, 1070(	8.60)	,
1075(	60.00)	, 1076(	3.00)	, 1169(	1.40)	, 1183(	0.30)					,

micropogonias furnieri

1(	16.00)	, 2(	2.00)	, 14(	0.00)	, 25(	18.40)	, 38(	4.80)	, 39(	23.60)	,
47(	5.40)	, 51(	14.93)	, 51(	0.27)	, 61(	10.60)	, 68(	28.60)	, 70(	17.60)	,
74(	13.80)	, 75(	14.40)	, 76(	41.60)	, 84(	15.20)	, 84(	1.40)	, 86(	12.00)	,
86(	1.60)	, 92(	14.40)	, 95(	5.00)	, 96(	23.60)	, 103(	29.20)	, 124(	3.00)	,
131(	0.00)	, 134(	28.80)	, 135(	2.20)	, 152(	10.00)	, 173(	7.60)	, 174(	17.60)	,
221(	1.10)	, 240(	15.20)	, 241(	1.00)	, 242(	8.00)	, 243(	2.00)	, 244(	103.20)	,
245(	6.20)	, 250(	30.00)	, 251(	43.60)	, 260(	2.40)	, 261(	9.28)	, 262(	1.20)	,
263(	2.60)	, 272(	1.00)	, 275(	120.00)	, 277(	14.40)	, 286(	1.40)	, 289(	1.80)	,
307(	36.00)	, 322(	15.20)	, 339(	18.80)	, 356(	119.00)	, 357(	5.00)	, 358(	6.92)	,
360(	4.80)	, 369(	1.40)	, 371(	1.60)	, 375(	2.80)	, 388(	1.60)	, 404(	9.40)	,
404(	5.80)	, 406(	57.60)	, 408(	28.60)	, 427(	32.00)	, 438(	1.00)	, 439(	59.20)	,
442(	13.20)	, 443(	44.00)	, 444(	24.00)	, 446(	49.00)	, 448(	15.00)	, 451(	18.40)	,
452(	71.20)	, 453(	6.00)	, 454(	193.20)	, 455(	4.80)	, 466(	13.00)	, 467(	3.60)	,
484(	80.60)	, 484(	93.60)	, 486(	200.00)	, 488(	149.40)	, 491(	6.00)	, 493(	8.23)	,
538(	17.60)	, 539(	9.60)	, 540(	16.80)	, 540(	32.00)	, 541(	39.00)	, 543(	25.60)	,
544(	27.40)	, 544(	12.00)	, 545(	23.20)	, 545(	8.00)	, 546(	51.60)	, 547(	4.29)	,
547(	3.43)	, 551(	2.20)	, 555(	6.00)	, 558(	20.60)	, 559(	7.20)	, 566(	3.00)	,
625(	13.20)	, 625(	4.00)	, 640(	6.40)	, 641(	27.00)	, 644(	3.00)	, 652(	2.00)	,
653(	0.80)	, 654(	7.00)	, 655(	25.60)	, 656(	1.00)	, 665(	14.00)	, 666(	3.00)	,
667(	3.80)	, 668(	8.40)	, 669(	4.40)	, 688(	18.00)	, 689(	6.40)	, 690(	0.40)	,
699(	149.40)	, 700(	94.40)	, 701(	16.50)	, 705(	42.00)	, 706(	1.80)	, 707(	33.60)	,
708(	36.80)	, 709(	21.00)	, 714(	9.00)	, 715(	3.00)	, 716(	0.50)	, 717(	40.50)	,
719(	7.00)	, 720(	4.00)	, 720(	16.00)	, 721(	8.60)	, 721(	4.80)	, 722(	119.40)	,
723(	3.00)	, 725(	10.00)	, 726(	28.00)	, 729(	26.60)	, 730(	57.60)	, 732(	78.40)	,
733(	17.00)	, 733(	0.60)	, 846(	18.80)	, 847(	7.68)	, 848(	6.00)	, 849(	13.40)	,
850(	15.30)	, 851(	42.60)	, 854(	2.70)	, 858(	11.20)	, 860(	2.60)	, 861(	22.50)	,
872(	31.00)	, 902(	2.40)	, 920(	11.60)	, 928(	10.40)	, 940(	1.30)	, 941(	0.70)	,
947(	6.40)	, 948(	5.40)	, 961(	1.40)	, 965(	8.20)	, 967(	7.40)	, 968(	22.40)	,
975(	14.20)	, 984(	1.85)	, 985(	29.40)	, 986(	1.60)	, 993(	0.50)	, 995(	20.00)	,
999(	5.60)	, 1002(	1.60)	, 1003(	15.00)	, 1005(	15.00)	, 1015(	11.20)	, 1018(	14.00)	,
1019(	4.40)	, 1021(	5.00)	, 1022(	13.80)	, 1023(	6.00)	, 1025(	42.00)	, 1026(	5.60)	,
1028(	33.69)	, 1029(	126.00)	, 1030(	70.00)	, 1031(	88.80)	, 1035(	73.00)	, 1037(	104.00)	,
1038(	115.20)	, 1039(	45.00)	, 1052(	4.80)	, 1053(	24.40)	, 1055(	1.00)	, 1057(	40.00)	,
1058(	15.40)	, 1059(	16.00)	, 1060(	8.20)	, 1061(	4.80)	, 1061(	1.12)	, 1063(	6.00)	,
1064(	13.60)	, 1065(	5.60)	, 1065(	1.44)	, 1069(	113.20)	, 1070(	43.20)	, 1071(	11.40)	,
1073(	17.00)	, 1074(	24.00)	, 1075(	30.00)	, 1076(	26.60)	, 1077(	22.89)	, 1082(	8.55)	,
1084(	3.40)	, 1088(	2.60)	, 1091(	4.00)	, 1140(	1.33)	, 1165(	2.40)	, 1167(	10.80)	,
1168(	1.10)	, 1169(	26.80)	, 1170(	3.00)	, 1171(	0.30)	, 1172(	11.24)	, 1179(	1.00)	,

<i>Umrina coroides</i>	1100 (1.00) , 51 (46.40) , 369 (6.00) , 665 (15.40) , 668 (2.60) , 1030 (11.00) , 1038 (0.60) , 1071 (0.70) , 83 (38.40) , 666 (19.80) , 1036 (2.46) , 1091 (6.50) , 370 (0.80) , 1039 (4.80) , 1029 (4.00)
SCOMBROLABRACIDAE	800 (0.00)
SCOMBRIDAE	131 (0.00)
<i>Scomoridae</i> Juveniles	13 (0.40) , 61 (0.20) , 128 (0.00) , 132 (0.00) , 133 (1.40) , 142 (0.00) , 428 (0.00)
<i>Auxis</i> sp	748 (5.85) , 781 (0.00) , 781 (0.40) , 793 (1.20)
<i>Auxis thazard</i>	736 (6.10) , 766 (0.40) , 832 (10.00)
<i>Eutynnus alletteratus</i>	5 (1.40) , 45 (11.60) , 57 (1.60) , 132 (11.07) , 135 (9.60) , 201 (4.00) , 474 (2.40) , 475 (18.65) , 1173 (20.00)
<i>Sarda sarda</i>	83 (2.70) , 252 (12.20) , 254 (0.80) , 255 (0.20) , 257 (13.00) , 266 (0.80) , 271 (0.80) , 275 (6.00) , 278 (1.03) , 280 (21.00) , 474 (5.60) , 550 (1.20) , 553 (0.20) , 737 (2.20) , 768 (15.70) , 1195 (0.50)
<i>Scomber japonicus</i>	105 (0.00) , 109 (37.50) , 122 (2.00) , 137 (0.00) , 144 (0.20) , 147 (0.80) , 151 (23.80) , 157 (0.30) , 160 (4.50) , 164 (0.00) , 165 (0.60) , 166 (0.00) , 168 (17.40) , 169 (0.00) , 183 (1.80) , 186 (3.60) , 195 (1.80) , 198 (0.00) , 201 (284.00) , 204 (0.80) , 207 (0.00) , 210 (0.20) , 214 (0.00) , 215 (1.24) , 224 (75.60) , 226 (1.72) , 227 (0.00) , 228 (26.00) , 229 (5.00) , 230 (4.00) , 231 (2.80) , 232 (2.40) , 252 (83.20) , 253 (0.12) , 254 (1.00) , 255 (0.06) , 256 (0.36) , 257 (0.60) , 257 (34.40) , 259 (1.00) , 260 (0.00) , 263 (1.80) , 264 (32.00) , 265 (0.60) , 266 (0.80) , 267 (4.20) , 268 (4.20) , 270 (20.16) , 271 (195.20) , 272 (8.00) , 274 (1.60) , 275 (20.00) , 276 (3.38) , 278 (1.65) , 280 (4.00) , 280 (8.40) , 282 (20.80) , 283 (182.40) , 315 (1.60) , 363 (0.40) , 382 (1.20) , 414 (0.00) , 463 (0.14) , 469 (318.60) , 472 (7.50) , 475 (57.39) , 480 (20.00) , 481 (38.40) , 482 (2.10) , 483 (1.60) , 502 (15.43) , 514 (0.40) , 530 (0.20) , 532 (0.40) , 536 (0.74) , 537 (9.90) , 548 (1.60) , 549 (0.50) , 550 (1.00) , 551 (0.70) , 554 (23.40) , 555 (42.00) , 556 (0.91) , 557 (0.60) , 560 (0.00) , 561 (1.80) , 562 (1.00) , 563 (1.00) , 564 (3.27) , 567 (1.00) , 569 (0.20) , 571 (5.60) , 574 (4.50) , 575 (0.70) , 576 (2.10) , 580 (4.11) , 582 (4.00) , 583 (6.00) , 737 (0.30) , 741 (1.20) , 750 (31.50) , 759 (0.10) , 760 (0.40) , 773 (16.50) , 775 (0.12) , 781 (0.50) , 783 (0.10) , 784 (5.40) , 787 (4.40) , 791 (1.60) , 792 (21.00) , 793 (7.40) , 794 (0.80) , 795 (0.26) , 799 (140.00) , 797 (3.50) , 801 (0.40) , 803 (0.60) , 806 (2.00) , 832 (3.00) , 833 (1.08) , 836 (22.05) , 839 (0.40) , 840 (0.60) , 854 (0.80) , 865 (0.10) , 866 (0.20) , 870 (7.80) , 874 (0.26) , 876 (5.50) , 877 (2.40) , 880 (0.00) , 886 (18.00) , 887 (2.60) , 891 (80.00) , 892 (1.00) , 897 (0.24) , 930 (3.56) , 1033 (3.20) , 1104 (0.60) , 1109 (0.40) , 1113 (243.00) , 1115 (208.00) , 1118 (3.20) , 1134 (0.46) , 1150 (0.39) , 1155 (1.74) , 1156 (0.04) , 1195 (3.18) , 1202 (3.50) ,
<i>Scomberomorus</i> sp	22 (0.20) , 98 (5.60) , 100 (1.71) , 228 (3.00) , 228 (12.00) , 966 (0.00) , 1150 (0.05)
<i>Scomberomorus cavalla</i>	9 (9.20) , 28 (0.80) , 31 (2.80) , 44 (4.20) , 45 (52.80) , 47 (32.20) , 51 (4.93) , 53 (14.00) , 58 (13.00) , 59 (12.60) , 66 (5.00) , 67 (7.60) , 71 (4.35) , 72 (2.60) , 73 (4.40) , 77 (2.60) , 78 (73.00) , 93 (24.60) , 93 (1.40) , 96 (6.20) , 96 (3.00) , 98 (4.60) , 101 (8.57) , 103 (2.20) , 104 (0.00) , 105 (10.70) , 112 (12.40) , 112 (2.40) , 121 (0.40) , 128 (3.60) , 132 (18.60) , 135 (8.60) , 153 (1.80) , 166 (10.00) , 204 (12.50) , 205 (1.90) , 206 (9.40) , 215 (17.60) , 216 (1.64) , 234 (2.80) , 240 (2.70) , 251 (0.00) , 253 (3.60) , 255 (0.20) , 276 (10.14) , 282 (20.80) , 287 (32.20) , 288 (2.40) , 291 (0.20) , 292 (8.40) , 296 (1.60) , 303 (10.60) , 304 (14.00) , 309 (5.20) , 310 (2.80) , 322 (40.00) , 337 (177.00) , 338 (28.60) , 340 (18.00) , 341 (26.00) , 342 (2.80) , 350 (12.00) , 353 (22.60) , 366 (15.40) , 370 (3.80) , 372 (13.80) , 376 (7.80) , 387 (13.00) , 388 (4.00) , 406 (28.80) , 409 (4.18) , 415 (45.00) , 423 (14.80) , 424 (12.00) , 428 (9.12) , 434 (464.60) , 440 (86.60) , 451 (8.80) , 455 (1.50) , 461 (8.20) , 464 (28.60) , 468 (25.60) , 469 (2.40) , 485 (308.80) ,

Scomberomorus cavalla (cont.)

520(	9.00)	, 523(	11.57)	, 528(	6.50)	, 531(	2.40)	, 533(	10.40)	, 546(	7.20)	,
550(	9.00)	, 552(	5.00)	, 557(	3.60)	, 560(	36.00)	, 564(	6.82)	, 569(	13.80)	,
570(	1.30)	, 571(	9.60)	, 574(	7.10)	, 587(	16.00)	, 588(	2.80)	, 590(	6.50)	,
602(	9.00)	, 609(	7.80)	, 614(	17.60)	, 617(	6.00)	, 620(	2.00)	, 622(	1.60)	,
629(	4.20)	, 631(	35.00)	, 632(	26.00)	, 632(	0.00)	, 633(	7.40)	, 635(	4.20)	,
637(	29.20)	, 638(	8.40)	, 648(	5.00)	, 649(	4.20)	, 651(	6.40)	, 653(	3.80)	,
655(	4.40)	, 656(	9.00)	, 657(	49.80)	, 658(	80.60)	, 663(	16.60)	, 665(	4.40)	,
666(	12.00)	, 667(	6.00)	, 669(	8.40)	, 670(	25.00)	, 671(	1.29)	, 672(	10.40)	,
678(	6.90)	, 679(	2.80)	, 692(	3.20)	, 693(	1.80)	, 695(	4.00)	, 697(	6.52)	,
712(	1.20)	, 714(	7.50)	, 716(	9.00)	, 731(	7.00)	, 746(	1.60)	, 747(	0.80)	,
753(	9.00)	, 817(	7.00)	, 818(	2.00)	, 825(	13.20)	, 827(	2.20)	, 828(	4.50)	,
837(	21.00)	, 839(	44.00)	, 846(	13.40)	, 848(	0.80)	, 849(	5.40)	, 850(	22.00)	,
855(	8.50)	, 863(	2.00)	, 864(	7.00)	, 904(	1.70)	, 915(	2.20)	, 916(	0.70)	,
920(	4.40)	, 921(	15.00)	, 922(	0.80)	, 923(	3.40)	, 926(	3.40)	, 927(	8.60)	,
928(	18.40)	, 929(	8.40)	, 930(	10.69)	, 932(	3.20)	, 934(	6.80)	, 940(	88.00)	,
942(	3.00)	, 943(	7.40)	, 944(	10.20)	, 945(	14.10)	, 956(	6.20)	, 960(	7.60)	,
961(	4.00)	, 961(	1.80)	, 962(	3.19)	, 972(	24.60)	, 973(	2.00)	, 974(	7.20)	,
975(	3.40)	, 975(	0.56)	, 976(	7.60)	, 983(	7.20)	, 984(	14.77)	, 984(	1.15)	,
986(	8.60)	, 988(	9.00)	, 992(	4.40)	, 994(	55.00)	, 994(	3.60)	, 996(	8.00)	,
998(	2.60)	, 998(	3.00)	, 999(	0.00)	, 1000(	3.00)	, 1001(	16.20)	, 1004(	3.80)	,
1015(	5.20)	, 1016(	19.37)	, 1020(	3.40)	, 1021(	1.20)	, 1024(	3.00)	, 1025(	1.60)	,
1026(	2.70)	, 1027(	3.00)	, 1028(	7.38)	, 1029(	13.00)	, 1033(	2.10)	, 1035(	8.00)	,
1046(	1.00)	, 1047(	0.75)	, 1048(	16.80)	, 1049(	14.88)	, 1050(	0.60)	, 1055(	1.20)	,
1091(	3.00)	, 1133(	4.00)	, 1140(	4.17)	, 1140(	2.00)	, 1145(	15.88)	, 1149(	2.80)	,
1161(	10.60)	, 1167(	1.60)	, 1174(	0.40)	, 1179(	0.60)	, 1179(	17.00)	, 1187(	4.20)	,
1190(	3.40)	, 1191(	0.44)	, 1205(	13.40)	, 1207(	7.00)					
<i>Scomberomorus brasiliensis</i>	447(12.80)	, 451(11.20)	, 452(4.40)	, 527(55.60)	, 528(8.40)	, 566(4.60)	,
604(	0.60)	, 607(	3.00)	, 614(	11.00)	, 621(	0.60)	, 635(	2.20)	, 655(	25.60)	,
656(	0.60)	, 666(	36.00)	, 668(	5.60)	, 690(	11.00)	, 846(	3.40)	, 847(	7.44)	,
851(	18.50)	, 853(	6.00)	, 859(	8.10)	, 860(	4.00)	, 861(	8.10)	, 862(	8.20)	,
863(	3.40)	, 890(	1.60)	, 900(	6.40)	, 904(	0.60)	, 910(	1.00)	, 916(	0.70)	,
920(	12.60)	, 921(	3.40)	, 927(	20.00)	, 928(	34.20)	, 930(	3.94)	, 931(	5.40)	,
938(	1.50)	, 940(	15.80)	, 940(	0.00)	, 942(	30.00)	, 943(	4.60)	, 944(	30.80)	,
945(	30.30)	, 946(	22.40)	, 947(	25.00)	, 948(	39.00)	, 952(	8.00)	, 961(	51.00)	,
967(	6.38)	, 964(	7.20)	, 964(	0.00)	, 967(	15.20)	, 968(	24.60)	, 969(	6.40)	,
971(	19.00)	, 972(	1.60)	, 973(	3.00)	, 974(	1.60)	, 983(	3.00)	, 984(	38.46)	,
985(	19.00)	, 986(	43.60)	, 987(	16.80)	, 988(	4.20)	, 993(	17.40)	, 994(	166.40)	,
995(	3.20)	, 996(	4.40)	, 997(	12.80)	, 998(	34.80)	, 999(	70.20)	, 1001(	0.86)	,
1002(	7.60)	, 1003(	8.20)	, 1005(	83.00)	, 1006(	2.40)	, 1015(	8.60)	, 1016(	84.51)	,
1018(	9.00)	, 1029(	2.40)	, 1054(	94.00)	, 1057(	2.00)	, 1058(	12.20)	, 1062(	2.40)	,
1063(	3.60)	, 1063(	0.48)	, 1067(	1.80)	, 1072(	2.30)	, 1073(	0.00)	, 1077(	16.00)	,
24(	9.00)	, 26(	8.00)	, 38(	43.60)	, 42(	4.60)	, 45(	4.40)	, 47(	0.60)	,
49(	2.40)	, 51(	0.51)	, 61(	2.60)	, 59(	7.40)	, 70(	2.20)	, 78(	0.60)	,
25(	3.40)	, 40(	2.50)	, 46(	19.00)	, 50(	0.20)	, 29(	20.40)	, 71(	9.90)	,
27(	5.40)	, 48(	14.20)	, 68(	6.20)	, 44(	12.00)	, 60(	3.60)	, 93(	12.00)	,
155(	0.10)	, 243(	0.10)	, 289(	18.60)	, 306(	0.40)	, 308(	8.00)	, 313(	36.60)	,
314(	6.00)	, 322(	33.20)	, 325(	6.00)	, 327(	68.81)	, 329(	17.00)	, 337(	8.00)	,
342(	34.00)	, 344(	310.40)	, 350(	1.20)	, 356(	2.80)	, 359(	2.40)	, 369(	27.40)	,
371(	7.20)	, 376(	3.80)	, 379(	2.40)	, 385(	2.60)	, 388(	35.60)	, 404(	4.40)	,
407(	38.60)	, 95(	11.60)	, 263(	2.20)	, 307(	82.80)	, 313(	10.00)	, 324(	25.00)	,
328(	25.60)	, 338(	18.00)	, 344(	2.40)	, 357(	15.00)	, 370(	2.20)	, 377(	12.00)	,
387(	6.00)	, 405(	15.80)	, 210(	28.10)	, 309(	23.60)	, 326(	2.10)	, 343(	13.20)	,
366(	2.80)	, 384(	2.00)	, 425(	9.20)	, 291(	0.30)	, 336(	6.00)	, 372(	4.80)	,
319(	84.00)	, 402(	21.80)	, 355(	1.20)	, 1140(	6.83)	, 1146(	3.20)	, 1147(	8.84)	,
1149(	3.60)	, 1165(	1.60)	, 1166(	6.00)	, 1168(	6.10)	, 1172(	9.00)	, 1178(	4.30)	,
1180(	10.00)	, 1182(	4.30)	, 1207(	3.00)	, 1(	16.00)	, 2(	0.00)	, 15(	9.00)	,
18(	3.57)	, 2(	59.40)	, 29(	0.00)	, 237(	0.10)	, 241(	3.20)	, 243(	1.40)	,

Scomberomorus brasiliensis (cont.)

245(	52.00)	, 248(	17.70)	, 261(	5.40)	, 284(	1.20)	, 291(	0.60)	, 294(	1.00)	,
542(	22.80)	, 2(	5.00)	, 16(	0.80)	, 37(	1.20)	, 239(	2.00)	, 244(	12.00)	,
249(	15.60)	, 286(	0.40)	, 297(	0.50)	, 13(	11.00)	, 102(	1.60)	, 247(	4.80)	,
293(	1.60)	, 20(	10.20)	, 263(	10.20)	, 242(	4.60)	, 543(	14.00)	, 559(	6.60)	,
558(	1.20)											

SCORPAENIDAE

Helicolenus dactylopterus	10(0.00)	, 331(0.80)	, 382(0.00)							
	812(102.00)	, 1102(4.20)	, 1119(2.10)	, 1130(2.80)	, 1142(1.20)	, 1143(0.00)	,

Pontinus sp.

	107(0.90)	, 115(0.00)	, 279(0.00)	, 390(0.00)	, 400(2.40)	, 742(0.00)	,
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Pontinus longispinis

	120(0.50)	, 139(0.60)	, 145(0.20)	, 146(21.00)	, 164(0.80)	, 175(1.50)	,
	185(2.80)	, 190(0.20)	, 200(1.60)	, 202(0.75)	, 218(0.80)	, 510(0.80)	,
	516(	30.00)	, 517(	0.80)	, 524(	3.00)	, 525(	5.37)	, 526(	3.75)	, 576(	4.20)	,
	577(	6.40)	, 578(	4.00)	, 594(	0.65)	, 780(	9.00)	, 808(	31.85)	, 809(	15.00)	,
	823(4.00)	, 824(0.60)	, 826(0.60)	, 878(1.35)	, 1093(0.63)	, 1094(2.40)	,
	1129(3.60)	, 1135(3.20)	, 1136(3.00)	, 1143(3.90)	, 1194(1.60)			

Pontinus helena

	392(0.40)										
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Pontinus rathbouni

	394(2.12)	, 394(0.60)	, 398(0.15)	, 416(0.20)				
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Pontinus castor

	824(0.20)	, 1131(0.10)								
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Scorpaena sp.

	107(0.90)	, 146(0.00)	, 296(0.00)	, 352(0.00)	, 408(9.00)	, 409(14.00)	,
	626(8.00)	, 783(0.50)	, 791(2.20)	, 801(0.00)	, 803(5.20)	, 814(0.60)	,
	842(	0.00)	, 881(	0.40)	, 890(	0.00)	, 900(	0.80)	, 906(	0.00)	, 937(	0.00)	,
	939(	0.00)											

Scorpaena brasiliensis

	51(	0.93)	, 90(	0.20)	, 122(	1.00)	, 123(	9.60)	, 125(	3.20)	, 187(	0.20)	,
	188(	1.60)	, 189(	0.30)	, 198(	3.60)	, 410(	4.60)	, 473(	9.00)	, 474(	4.80)	,
	485(	39.00)	, 486(	4.80)	, 491(	20.90)	, 650(	1.60)	, 651(	4.80)	, 672(	1.60)	,
	776(	0.30)	, 785(	3.00)	, 795(	4.00)	, 901(	0.30)	, 990(	0.36)	, 997(	0.24)	,
	1009(	0.04)	, 1010(	1.20)	, 1021(	12.60)	, 1095(	2.00)	, 1098(	0.40)	, 1099(	0.58)	,
	1107(	4.00)	, 1116(	1.90)	, 1125(	0.70)	, 1126(	0.10)	, 1127(	0.04)	, 1134(	0.00)	,
	1156(	0.80)	, 1158(	0.20)	, 1185(	0.10)	, 1192(	0.10)	, 1195(	1.98)			
	131(	0.80)	, 163(	1.00)	, 220(	1.00)	, 234(	0.40)	, 429(	4.00)	, 477(	0.48)	,
	482(	4.20)	, 483(	4.80)	, 500(	0.36)	, 769(	1.60)	, 770(	2.40)	, 1105(	2.40)	,
	1122(0.00)	, 1154(0.45)	, 1156(0.50)							

Scorpaena dispar

	144(0.20)	, 157(1.80)	, 361(0.40)	, 367(0.00)	, 1126(0.40)		
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Scorpaena agassizi

	147(3.60)	, 148(2.20)	, 149(3.30)	, 471(8.60)	, 480(14.00)	, 481(12.00)	,
	484(2.60)	, 510(0.40)	, 517(1.20)	, 627(0.00)	, 634(1.50)	, 644(0.10)	,
	652(	0.30)	, 665(	0.00)	, 736(	0.00)	, 788(	1.40)	, 789(	0.40)	, 792(	9.00)	,
	794(	5.00)	, 899(	1.20)	, 939(	1.20)	, 1079(	0.40)	, 1080(	2.22)	, 1095(	0.40)	,
	1114(	0.71)	, 1115(	0.20)	, 1116(	0.86)	, 1118(	3.60)	, 1123(	0.16)	, 1131(	0.26)	,
	1134(	0.46)	, 1155(	0.14)	, 1159(	0.06)	, 1183(	0.00)					

Scorpaena isthmensis

	233(0.40)	, 400(0.00)	, 471(12.90)	, 473(1.80)	, 480(2.80)	, 634(0.50)	,
	737(0.50)	, 936(0.82)	, 951(0.30)	, 1104(0.12)					

Scorpaena calcarata

	1104(0.30)										
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Betarches guentheri

	392(0.00)	, 396(0.00)	, 417(0.40)	, 702(0.30)	, 811(0.30)	, 1151(0.30)	,
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SEARSIIDAE

Mauliella mauii

	1044(0.30)										
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SEKKANIDAE

	173(0.15)	, 299(0.55)	, 382(1.20)	, 605(0.00)	, 900(4.00)	, 1162(0.44)	,
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Cephalopholis cruentata

	1049(0.84)										
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Diplectrum sp

	9(0.00)	, 10(5.60)	, 58(14.00)	, 64(0.40)	, 81(0.00)	, 89(0.30)	,
	90(0.00)	, 106(0.60)	, 110(0.00)	, 138(0.00)	, 144(0.10)	, 205(0.00)	,
	253(	0.00)	, 295(	0.00)	, 383(	4.80)	, 399(	7.00)	, 423(	0.20)	, 644(	1.00)	,
	726(	0.80)	, 950(	0.90)									

Diplectrum tomentosum

5(	0.80)	8(	0.30)	17(	0.80)	123(	0.00)	131(	0.00)	135(	2.40)
142(	1.00)	148(	0.60)	152(	2.60)	154(	1.20)	231(	0.00)	233(	2.40)
234(	0.40)	312(	2.40)	321(	0.20)	323(	1.00)	331(	4.40)	345(	0.20)
348(	0.00)	352(	0.20)	367(	0.00)	368(	7.20)	384(	2.40)	385(	4.80)
423(	0.40)	441(	1.00)	442(	0.30)	451(	1.20)	452(	1.20)	462(	0.20)
463(	2.00)	466(	9.60)	467(	10.00)	468(	0.00)	472(	2.40)	474(	9.20)
485(	71.60)	548(	2.80)	609(	1.40)	611(	0.30)	619(	0.40)	620(	1.40)
621(	0.30)	622(	0.20)	626(	32.00)	627(	3.60)	628(	2.40)	634(	3.00)
645(	0.40)	649(	1.20)	650(	3.00)	652(	0.30)	653(	0.80)	663(	3.50)
729(	4.00)	738(	0.40)	744(	0.04)	749(	0.80)	750(	1.50)	754(	1.20)
830(	0.00)	863(	0.20)	883(	0.60)	888(	0.80)	926(	0.00)	931(	0.16)
936(	3.27)	938(	3.20)	939(	2.00)	949(	6.80)	950(	0.30)	951(	3.60)
957(	0.60)	958(	0.20)	959(	6.00)	960(	1.92)	963(	0.26)	977(	0.40)
997(	0.20)	1072(	0.32)	1080(	0.78)	1082(	1.80)	1084(	1.00)	1089(	0.96)
1090(	0.12)	1098(	0.30)	1099(	0.52)	1107(	1.40)	1157(	1.00)	1192(	0.20)
1196(	0.22)	1201(	1.00)								

Diplectrum radiale

141(	0.10)	148(	0.00)	151(	1.00)	152(	1.80)	166(	0.00)	173(	3.20)
174(	0.00)	181(	0.20)	207(	0.60)	208(	0.24)	220(	0.00)	221(	0.00)
232(	0.80)	256(	1.20)	258(	0.32)	260(	0.16)	277(	0.00)	296(	1.60)
361(	0.00)	481(	4.80)	484(	5.20)	494(	0.30)	548(	9.60)	604(	0.40)
605(	2.00)	619(	0.40)	622(	0.60)	627(	0.40)	628(	0.60)	631(	3.00)
634(	2.30)	644(	2.40)	648(	0.24)	652(	1.80)	654(	0.00)	663(	3.50)
665(	4.40)	687(	0.12)	729(	12.00)	744(	0.00)	749(	0.20)	750(	0.00)
761(	1.80)	770(	5.80)	814(	0.30)	846(	1.20)	854(	0.00)	919(	0.40)
920(	2.00)	921(	0.14)	938(	0.00)	939(	1.20)	949(	0.60)	950(	0.30)
951(	0.30)	957(	0.40)	958(	0.60)	962(	0.75)	964(	2.80)	966(	1.40)
971(	3.20)	972(	5.80)	973(	5.60)	976(	0.36)	977(	2.00)	981(	0.80)
983(	3.20)	984(	0.62)	974(	0.20)	988(	0.70)	989(	0.40)	992(	0.80)
997(	1.00)	1004(	0.06)	1007(	0.80)	1009(	0.30)	1014(	1.70)	1052(	0.20)
1082(	0.60)	1084(	6.00)	1088(	0.20)	1091(	4.60)	1097(	0.10)	1098(	2.60)
1099(	0.96)	1100(	3.60)	1124(	0.36)	1132(	0.80)	1138(	0.10)	1139(	0.30)
1146(	0.10)	1148(	0.14)	1155(	0.20)	1156(	1.40)	1157(	0.04)	1160(	0.60)
1162(	0.22)	1163(	1.00)	1174(	1.34)	1184(	0.32)	1185(	1.00)	1188(	0.20)
1189(	0.30)										

Diplectrum bivittatum

174(	1.60)	460(	1.50)	462(	0.30)	463(	1.14)	464(	1.00)	466(	4.00)
468(	1.80)	470(	0.80)	474(	20.80)	485(	65.00)	486(	4.00)	488(	1.08)
494(	0.60)	496(	0.50)	513(	0.00)	518(	0.00)	519(	0.00)	522(	0.24)
529(	0.00)	530(	0.00)	537(	0.30)	546(	0.00)	548(	1.60)	549(	2.50)
555(	1.40)	561(	0.00)	564(	2.18)	567(	0.50)	574(	0.14)	575(	0.00)
583(	1.00)	584(	2.40)	587(	0.40)	595(	0.20)	599(	0.10)	602(	0.60)
603(	0.00)	606(	0.60)	614(	0.00)	621(	1.00)	635(	0.00)	643(	13.60)
649(	0.40)	656(	1.20)	692(	0.00)	696(	0.40)	698(	2.40)	706(	2.00)
707(	12.80)	708(	0.80)	711(	0.00)	713(	1.00)	714(	0.00)	720(	0.80)
721(	5.40)	722(	0.00)	723(	0.40)	724(	9.20)	746(	0.20)	753(	0.00)
761(	0.60)	762(	0.30)	763(	0.17)	769(	1.40)	770(	0.20)	783(	0.20)
785(	0.00)	786(	1.80)	804(	0.60)	815(	1.80)	816(	3.75)	817(	0.30)
830(	0.00)	836(	0.00)	837(	0.30)	839(	0.10)	840(	0.90)	842(	3.30)
845(	0.00)	854(	6.00)	856(	0.00)	858(	0.88)	862(	0.40)	864(	0.40)
865(	0.20)	866(	0.00)	871(	0.00)	872(	0.60)	876(	0.00)	877(	0.80)
881(	1.60)	885(	0.00)	886(	0.30)	893(	0.15)	894(	0.60)	896(	0.00)
905(	1.00)	906(	6.00)	908(	0.00)	910(	0.10)	914(	0.60)	915(	0.10)
917(	0.10)	935(	0.06)	936(	1.53)	937(	0.00)	939(	0.80)	951(	0.60)
953(	0.00)	963(	1.00)	978(	1.60)	987(	1.00)	990(	3.50)	997(	0.04)
1030(	2.60)	1052(	1.40)	1057(	2.22)	1058(	6.22)	1067(	0.36)	1071(	2.60)
1072(	0.08)	1074(	4.00)	1079(	0.40)	1082(	0.60)	1088(	0.08)	1090(	0.12)
1091(	3.20)	1104(	5.70)	1105(	0.60)	1107(	14.00)	1133(	0.30)	1137(	0.40)
1140(	0.13)	1144(	0.04)	1149(	0.78)	1152(	0.16)	1154(	0.75)	1161(	0.20)
1162(	1.00)	1163(	0.04)	1176(	0.24)	1177(	0.00)	1178(	0.54)	1179(	0.30)

Diplolepis bivittatum (cont.)

	1183(	1.60)	,1186(	0.50)	,1190(	1.50)	,1191(	3.96)	,1192(	6.00)	,1198(	0.14)	,
	1201(	0.30)	,1202(	0.70)	,1204(	0.52)	,1205(	0.40)	,1206(	0.04)	,1207(	0.00)	,
	1208(	0.80)											
<i>Epinephelus</i> sp	138(	0.60)	,577(	18.60)	,584(	13.80)	,951(	0.00)					
<i>Epinephelus niveatus</i>	1094(	14.90)	,202(	3.00)	,255(	0.00)	,266(	0.12)	,471(	1.40)	,477(	30.24)	,
	479(	47.80)	,486(	3.20)	,575(	18.00)	,582(	19.20)	,596(	0.40)	,617(	1.80)	,
	755(	0.00)	,102(	1.00)	,1089(	0.30)	,1156(	0.02)	,1194(	8.50)			
<i>Epinephelus guttatus</i>	504(	3.00)	,798(	6.00)	,900(	1.00)	,1117(	7.40)					
<i>Epinephelus triavolimpatus</i>	17(	1.80)	,109(	1.50)	,222(	0.96)	,260(	0.00)	,383(	0.80)	,399(	0.00)	,
	470(	1.20)	,474(	2.40)	,479(	18.90)	,481(	31.20)	,482(	13.20)	,784(	0.40)	,
	808(	1.90)	,824(	0.80)	,831(	3.00)	,1095(	2.20)	,1096(	1.00)	,1135(	0.93)	,
	1176(	0.08)	,1177(	0.30)	,1183(	0.40)	,1195(	28.20)					
<i>Epinephelus morio</i>	122(	3.00)	,123(	4.80)	,140(	5.80)	,143(	1.20)	,158(	10.04)	,283(	17.20)	,
	318(	20.00)	,599(	13.00)	,771(	5.00)	,776(	12.80)	,777(	34.00)	,787(	0.60)	,
	782(	10.20)	,812(	14.90)	,884(	4.60)	,1186(	10.10)	,1190(	8.60)	,1197(	16.00)	,
	1198(	12.00)	,1201(	15.00)	,1206(	10.50)							
<i>Epinephelus adscensionis</i>	161(	0.80)	,163(	39.20)									
<i>Epinephelus nigritus</i>	58(	0.00)	,174(	0.00)	,1059(	0.40)							
<i>Epinephelus itajara</i>	733(	160.00)											
<i>Hemanthias</i> sp	189(	1.20)											
<i>Hemanthias leptus</i>	19(	1.40)	,159(	1.10)	,200(	0.13)	,222(	3.36)	,516(	0.00)	,824(	2.30)	,
	158(	62.40)	,202(	12.90)	,601(	3.53)	,192(	2.90)	,826(	1.95)	,511(	33.60)	,
	1136(	0.07)											
<i>Molanthias martinicensis</i>	1114(	0.00)	,1118(	0.00)	,1121(	0.16)	,1131(	1.00)	,1132(	0.00)	,808(	1.75)	,
	809(	1.50)	,813(	31.50)	,1210(	0.02)							
<i>Mycteroperca rubra</i>	161(	20.30)	,1100(	4.80)	,1117(	6.80)							
<i>Mycteroperca interstitialis</i>	9(	2.20)	,96(	1.42)	,161(	17.00)	,163(	29.20)	,272(	10.00)	,482(	3.00)	,
	536(	29.40)	,1100(	16.00)	,1121(	9.47)	,1138(	7.40)	,1199(	13.00)			
<i>Mycteroperca venenosa</i>	66(	20.40)	,161(	21.90)	,163(	22.00)	,798(	21.40)	,837(	4.00)	,910(	0.00)	,
	1117(	1.60)	,1122(	0.00)									
<i>Mycteroperca phenax</i>	143(	0.50)	,313(	35.00)	,972(	1.40)							
<i>Mycteroperca cidi</i>	163(	59.80)	,316(	40.00)	,469(	34.00)	,471(	53.00)	,499(	36.40)	,500(	12.48)	,
	504(	2.00)	,517(	57.00)	,582(	24.20)	,797(	24.00)	,1047(	1.80)	,1100(	230.80)	,
	1124(	30.60)											
<i>Mycteroperca bonaci</i>	271(	15.40)	,276(	12.60)	,374(	63.00)	,562(	16.20)	,569(	44.00)	,580(	56.57)	,
	884(	2.10)	,1189(	12.20)	,1190(	4.80)	,1206(	39.00)					
<i>Pirex mexicana</i>	200(	0.20)	,416(	1.00)	,516(	0.20)	,808(	2.45)	,1135(	0.80)			
<i>Paranthias</i> sp.	478(	0.60)											
<i>Paranthias turciter</i>	477(	0.00)	,786(	2.00)	,1100(	36.00)	,1122(	0.00)	,1155(	1.50)	,1204(	0.32)	,
<i>Pronotoqrammus eos</i>	185(	1.68)	,190(	0.50)	,192(	0.20)	,393(	0.26)	,412(	54.00)	,517(	0.40)	,
	812(	37.50)	,813(	0.20)	,1194(	0.30)							
<i>Serranus</i> sp	177(	0.00)	,180(	4.80)	,181(	0.00)	,187(	0.00)	,408(	6.00)	,409(	8.73)	,
	410(	4.60)	,485(	22.80)	,593(	4.80)	,596(	0.00)	,950(	0.04)	,951(	0.30)	,
	956(	0.06)	,978(	0.04)									
<i>Serranus atrobranchus</i>	143(	0.00)	,144(	0.60)	,173(	0.40)	,186(	0.00)	,198(	0.00)	,258(	1.60)	,
	469(	0.00)	,470(	0.00)	,491(	5.70)	,510(	0.00)	,817(	0.30)	,825(	0.48)	,
	831(	3.90)	,840(	1.20)	,842(	3.00)	,843(	18.50)	,854(	0.00)	,858(	0.00)	,
	867(	1.42)	,873(	0.00)	,899(	0.60)	,905(	0.10)	,911(	0.00)	,937(	0.46)	,
	981(	0.00)	,989(	0.34)	,1000(	1.20)	,1007(	2.40)	,1008(	5.20)	,1009(	1.00)	,
	1010(	1.50)	,1014(	6.40)	,1022(	0.60)	,1023(	1.80)	,1031(	0.00)	,1051(	0.48)	,
	1050(	0.12)	,1082(	5.40)	,1091(	0.60)	,1095(	3.30)	,1096(	2.20)	,1099(	0.96)	,
	1106(	0.72)	,1134(	0.30)	,1146(	0.00)	,1148(	1.40)	,1149(	0.00)	,1152(	0.40)	,
	1154(	0.00)	,1156(	0.00)	,1158(	9.20)	,1159(	0.14)	,1162(	0.04)	,1174(	0.40)	,
	1176(	0.00)	,1177(	0.18)	,1178(	0.44)	,1183(	0.00)	,1185(	3.00)	,1186(	0.20)	,
	1191(	0.72)	,1201(	0.04)	,1209(	0.00)	,1210(	0.02)					
<i>Serranus phoebe</i>	187(	0.20)	,188(	0.40)	,316(	0.60)	,374(	0.40)	,400(	4.80)	,401(	2.00)	,

Serranus phoebe (cont.)

412(	0.60)	, 414(	0.10)	, 423(	0.00)	, 429(	1.20)	, 430(	2.00)	, 466(	12.80)	,
467(	8.00)	, 472(	0.30)	, 477(	10.80)	, 481(	4.80)	, 482(	7.35)	, 483(	0.00)	,
484(	13.00)	, 494(	0.14)	, 506(	1.00)	, 507(	1.38)	, 517(	1.60)	, 535(	0.20)	,
567(	10.00)	, 573(	0.80)	, 584(	2.40)	, 592(	0.00)	, 617(	2.40)	, 618(	4.11)	,
672(	2.40)	, 673(	6.00)	, 677(	8.16)	, 679(	0.40)	, 681(	0.00)	, 686(	6.00)	,
692(	0.40)	, 711(	2.60)	, 712(	8.00)	, 713(	11.00)	, 737(	1.40)	, 764(	0.00)	,
765(	0.00)	, 772(	0.00)	, 776(	4.00)	, 777(	1.10)	, 789(	4.00)	, 792(	0.00)	,
801(	0.90)	, 803(	8.00)	, 807(	0.40)	, 814(	0.60)	, 815(	1.00)	, 833(	3.60)	,
834(	0.80)	, 842(	1.20)	, 845(	0.60)	, 881(	2.00)	, 893(	0.60)	, 926(	0.00)	,
936(	0.71)	, 938(	0.00)	, 939(	0.20)	, 950(	0.02)	, 953(	0.12)	, 955(	0.00)	,
981(	3.20)	, 990(	2.46)	, 1027(	0.10)	, 1079(	8.00)	, 1098(	0.00)	, 1100(	3.60)	,
1104(	0.00)	, 1114(	2.54)	, 1116(	0.60)	, 1121(	4.74)	, 1124(	0.12)	, 1126(	0.06)	,
1127(	0.46)	, 1130(	7.60)	, 1134(	0.00)	, 1152(	0.16)	, 1155(	0.50)	, 1160(	1.20)	,
1175(	0.00)	, 1200(	0.30)	, 1202(	0.00)	, 1204(	0.28)	, 1206(	0.60)	, 1209(	0.08)	,
1210(	0.20)											
Serranus riaviventris	256(8.40)	, 269(0.00)	, 279(1.04)	, 471(2.00)	, 473(30.60)	, 503(1.00)	,
	783(	0.10)										
Serranus tortuorum	778(0.50)	, 1117(0.60)	, 1122(0.00)	, 1126(0.04)					
Serranus tabacarius	122(0.40)	, 123(0.96)									
Serranus dewegeri	1095(1.80)	, 123(6.96)	, 134(1.20)	, 141(1.20)	, 125(1.20)	, 140(6.00)	,
	151(1.08)	, 154(2.40)	, 463(0.43)	, 484(1.40)	, 501(0.48)	, 765(3.60)	,
	1026(1.20)	, 152(22.00)	, 482(6.30)	, 557(1.40)	, 1086(5.60)	, 456(1.60)	,
	769(0.80)	, 488(2.16)	, 1106(0.00)	, 1114(1.94)	, 1162(0.22)			
Serranus baldwini	1117(0.02)	, 1122(0.00)									

SERRIVOMERIDAE

Serrivomer parapeani 1045(0.20), 683(0.03)

S H A R K S

Alopias superciliosus	759(	560.00)											
CARCHARHINIDAE	25(	0.80)											
Carcharhinus sp	9(	2.00)	, 86(	18.20)	, 116(	0.35)	, 389(	6.00)					
Carcharhinus limbatus	23(	5.80)	, 329(	5.40)	, 333(	4.00)	, 378(	19.40)	, 602(	2.40)	, 614(	13.00)	,
	655(	7.00)	, 666(	6.00)	, 987(	3.40)	, 1005(	3.40)	, 1016(	10.80)	, 1148(	10.80)	,
Carcharhinus porosus	78(	6.00)	, 244(	6.30)	, 274(	18.80)	, 276(	6.80)	, 445(	7.50)	, 625(	9.40)	,
	705(	1.80)	, 872(	115.00)	, 883(	1.20)	, 921(	7.60)	, 928(	23.60)	, 1002(	10.00)	,
	1018(	4.00)	, 1039(	5.00)	, 243(	1.80)	, 275(	47.00)	, 623(	19.40)	, 747(	18.00)	,
	905(	10.90)	, 929(	20.20)	, 1030(	10.80)	, 272(	5.60)	, 701(	6.60)	, 922(	4.00)	,
	1064(	5.40)	, 406(	17.20)	, 1006(	6.80)	, 882(	38.00)					
Carcharhinus signatus	6(	17.00)	, 12(	2.20)	, 13(	4.40)	, 15(	11.80)	, 17(	2.20)	, 18(	8.43)	,
	25(	8.00)	, 98(	13.60)	, 1042(	37.50)							
Carcharhinus acronotus	31(	20.00)	, 56(	2.60)	, 77(	9.40)	, 87(	4.00)	, 116(	0.18)	, 621(	5.80)	,
	963(	1.00)	, 48(	12.00)	, 78(	33.20)	, 297(	2.60)	, 1057(	12.00)	, 59(	23.00)	,
	932(	8.20)	, 96(	4.20)									
Carcharhinus leucas	371(	16.60)											
Rhizoprionodon sp	1(	56.80)	, 2(	6.00)	, 70(	24.20)	, 26(	5.00)	, 66(	3.20)	, 76(	6.80)	,
Rhizoprionodon alandii	21(	2.20)	, 25(	3.60)	, 27(	42.60)	, 38(	19.20)	, 53(	10.60)	, 78(	7.00)	,
	92(	0.90)	, 203(	9.40)	, 220(	2.40)	, 291(	4.40)	, 295(	3.20)	, 297(	4.40)	,
	299(	13.64)	, 304(	30.00)	, 343(	12.00)	, 344(	1.60)	, 350(	1.00)	, 408(	102.00)	,
	409(	14.91)	, 415(	10.60)	, 424(	1.60)	, 431(	1.60)	, 433(	1.80)	, 442(	1.80)	,
	447(	1.80)	, 539(	0.40)	, 540(	3.60)	, 541(	9.18)	, 543(	8.00)	, 544(	0.80)	,
	560(	3.80)	, 566(	2.00)	, 574(	3.00)	, 588(	6.40)	, 602(	4.40)	, 604(	15.20)	,
	606(	1.40)	, 721(	2.60)	, 728(	4.00)	, 731(	9.00)	, 1022(	1.00)	, 1046(	7.00)	,
	1056(	1.20)	, 1057(	7.60)	, 1058(	9.30)	, 1059(	12.00)	, 1060(	2.50)	, 1063(	1.30)	,
	1067(	5.20)	, 1068(	1.20)	, 1069(	1.10)	, 1187(	3.00)					

<i>Sphyrna tudes</i>	339(	0.60)	, 544(	8.00)	, 985(	0.80)	, 1039(	1.00)	, 543(	13.00)	, 1002(	1.50)	,
	655(	12.80)	, 1182(	17.09)									
SQUALIDAE	743(	0.60)											
<i>Lentrophorus granuloseus</i>	1092(	8.50)	, 1103(	18.00)	, 1119(	17.50)	, 796(	4.90)					
<i>Centrophorus squamosus</i>	1142(	9.00)											
<i>Valatias licha</i>	742(	21.36)											
<i>Etmopterus sp</i>	139(	2.40)	, 219(	0.00)	, 576(	1.20)	, 577(	1.20)	, 578(	2.00)	, 579(	0.00)	,
	594(	0.91)	, 800(	5.00)	, 810(	0.10)	, 879(	0.00)	, 899(	1.20)	, 925(	3.45)	,
	1101(	4.00)	, 1103(	0.80)	, 1103(	2.24)	, 1119(	0.06)	, 1129(	1.20)	, 1130(	0.28)	,
	1143(	1.50)	, 1151(	0.12)									
<i>Etmopterus pusillus</i>	392(	0.20)	, 417(	0.40)	, 683(	3.00)	, 684(	0.30)	, 685(	0.20)	, 742(	0.72)	,
	780(	1.50)	, 822(	1.50)	, 1043(	0.20)	, 1093(	15.73)					
<i>Etmopterus gracilispinis</i>	145(	0.20)	, 146(	8.25)									
<i>Etmopterus virens</i>	115(	0.20)	, 398(	0.50)	, 390(	0.71)							
<i>Etmopterus schultzi</i>	1094(	8.00)											
<i>Centroscymnus owstoni</i>	800(	6.00)											
<i>Scymnodon obscurus</i>	1092(	0.50)											
<i>Squalus sp</i>	115(	0.80)	, 577(	3.20)	, 578(	54.00)	, 594(	1.04)					
<i>Squalus plainvillei</i>	742(	0.84)	, 823(	1.70)									
<i>Squalus cubensis</i>	145(	0.50)	, 164(	1.00)	, 175(	3.90)	, 185(	1.25)	, 188(	3.80)	, 189(	0.90)	,
	190(	0.40)	, 191(	2.20)	, 192(	0.90)	, 193(	0.90)	, 1094(	2.30)	, 1135(	0.93)	,
<i>Squaliolus laticaudus</i>	115(	0.20)	, 811(	0.90)									
<i>Squatina sp</i>	115(	5.40)	, 145(	4.70)	, 146(	2.00)	, 573(	8.00)	, 1103(	7.00)			
<i>Squatina gunmeril</i>	6(	6.00)	, 120(	1.70)	, 164(	11.90)	, 219(	46.40)	, 393(	9.00)	, 417(	5.00)	,
	491(	5.00)	, 790(	2.25)	, 1101(	3.00)	, 1135(	3.07)	, 1136(	6.67)			
<i>Mustelus sp</i>	91(	0.00)	, 339(	1.00)	, 509(	14.80)	, 1191(	25.20)					
<i>Mustelus nigmani</i>	25(	4.60)	, 52(	3.50)	, 84(	12.60)	, 94(	6.20)	, 125(	6.80)	, 127(	13.00)	,
	128(	2.20)	, 134(	0.88)	, 140(	6.20)	, 144(	12.40)	, 145(	1.10)	, 147(	1.00)	,
	152(	2.40)	, 162(	8.00)	, 187(	2.10)	, 265(	2.00)	, 271(	1.60)	, 379(	6.20)	,
	380(	1.40)	, 384(	2.00)	, 385(	1.00)	, 400(	3.30)	, 401(	1.60)	, 406(	81.00)	,
	427(	48.00)	, 429(	1.60)	, 430(	1.20)	, 434(	41.00)	, 438(	2.00)	, 442(	2.20)	,
	444(	32.00)	, 446(	92.40)	, 448(	13.60)	, 461(	3.00)	, 466(	16.00)	, 631(	4.00)	,
	677(	2.40)	, 679(	6.00)	, 686(	3.00)	, 687(	0.40)	, 688(	0.30)	, 701(	27.40)	,
	705(	15.40)	, 709(	19.80)	, 711(	1.60)	, 712(	6.40)	, 713(	10.00)	, 715(	15.00)	,
	719(	4.00)	, 720(	4.80)	, 720(	2.40)	, 721(	14.80)	, 722(	12.40)	, 725(	14.80)	,
	726(	16.00)	, 728(	1.20)	, 730(	12.80)	, 737(	2.60)	, 792(	1.50)	, 808(	2.30)	,
	814(	3.00)	, 906(	0.40)	, 931(	1.80)	, 932(	1.00)	, 936(	2.73)	, 942(	2.40)	,
	943(	0.80)	, 949(	1.20)	, 958(	1.00)	, 968(	1.00)	, 971(	3.40)	, 996(	0.80)	,
	997(	1.80)	, 1003(	1.40)	, 1004(	3.00)	, 1007(	1.00)	, 1008(	4.00)	, 1009(	2.40)	,
	1014(	3.00)	, 1015(	1.40)	, 1017(	1.80)	, 1018(	2.40)	, 1019(	5.10)	, 1020(	1.80)	,
	1021(	1.60)	, 1022(	3.00)	, 1026(	3.00)	, 1027(	1.90)	, 1029(	2.80)	, 1030(	16.60)	,
	1031(	0.80)	, 1035(	6.60)	, 1036(	1.00)	, 1037(	13.00)	, 1038(	3.50)	, 1039(	10.00)	,
	1046(	3.00)	, 1051(	4.00)	, 1052(	1.40)	, 1053(	11.00)	, 1050(	24.00)	, 1054(	2.00)	,
	1055(	2.00)	, 1057(	4.00)	, 1059(	2.80)	, 1064(	0.90)	, 1065(	1.80)	, 1067(	2.00)	,
	1081(	0.40)	, 1082(	2.40)	, 1084(	3.60)	, 1095(	12.80)	, 1096(	14.00)	, 1158(	1.50)	,
	1180(	2.00)											
<i>Mustelus canis</i>	1094(	2.20)	, 1095(	16.00)	, 1104(	10.00)	, 13(	2.00)	, 88(	0.80)	, 49(	1.80)	,
	89(	0.60)	, 92(	6.00)	, 113(	1.80)	, 171(	12.00)	, 173(	7.20)	, 182(	28.80)	,
	202(	1.50)	, 274(	6.60)	, 404(	37.20)	, 409(	119.45)	, 415(	16.00)	, 460(	7.40)	,
	482(	42.00)	, 486(	36.80)	, 495(	11.40)	, 565(	2.00)	, 580(	2.40)	, 617(	4.80)	,
	673(	4.80)	, 692(	3.00)	, 765(	25.00)	, 797(	8.00)	, 806(	12.00)	, 870(	5.40)	,
	877(	7.80)	, 886(	25.20)	, 905(	1.70)	, 1024(	1.30)	, 1027(	7.40)	, 91(	3.00)	,
	159(	3.90)	, 176(	4.00)	, 268(	3.20)	, 408(	105.00)	, 423(	4.00)	, 484(	80.60)	,
	519(	7.00)	, 601(	2.47)	, 681(	4.80)	, 791(	10.60)	, 866(	1.60)	, 878(	2.10)	,
	1021(	0.80)	, 1079(	1.00)	, 107(	27.00)	, 188(	8.80)	, 410(	217.00)	, 492(	26.60)	,
	626(	32.00)	, 801(	8.60)	, 896(	3.40)	, 172(	5.40)	, 469(	0.80)	, 744(	1.20)	,
	1026(	4.60)	, 388(	4.00)	, 874(	16.00)	, 573(	18.00)	, 1118(	3.00)	, 1134(	13.40)	,

<i>Mustelus canis</i> (cont.)	1136(	0.80)	,1194(	4.50)	,1204(	6.40)							
<i>Mustelus norrisi</i>	1127(	8.40)	,1148(	20.40)	,1152(	3.20)	,1190(	3.30)	,1195(	16.50)	,1201(	4.90)	,
	1206(	5.20)	,1209(	12.00)									
S H R I M P S	11(	1.30)	,107(	3.00)	,356(	19.60)	,385(	5.60)	,490(	48.00)	,559(	3.40)	,
	726(	0.80)	,728(	2.40)	,808(	2.80)	,809(	1.50)	,925(	15.60)			
Shrimps, small, non comm.	1(	24.00)	,10(	0.00)	,16(	0.10)	,70(	5.60)	,89(	4.20)	,145(	0.00)	,
	146(	0.00)	,164(	0.60)	,173(	4.00)	,175(	3.60)	,186(	1.20)	,187(	0.20)	,
	200(	3.93)	,208(	0.00)	,240(	0.00)	,242(	12.00)	,243(	1.60)	,321(	0.20)	,
	384(	5.60)	,400(	9.60)	,401(	0.80)	,457(	0.30)	,516(	1.00)	,558(	7.20)	,
	593(	3.60)	,640(	8.00)	,654(	0.34)	,677(	0.20)	,725(	5.60)	,729(	20.00)	,
	831(	0.78)	,845(	1.80)	,858(	8.80)	,878(	0.90)	,897(	0.05)	,899(	1.20)	,
	920(	0.80)	,937(	0.30)	,938(	0.00)	,980(	4.20)	,989(	1.20)	,1006(	12.60)	,
	1011(	11.60)	,1012(	3.60)	,1065(	1.20)	,1073(	22.80)					
Shrimps, larvae	92(	0.00)	,339(	74.40)	,1182(	6.26)							
<i>Aristaemorpha</i> sp	145(	0.00)	,790(	3.50)	,811(	1.20)	,879(	0.80)					
<i>Aristaemorpha folicea</i>	189(	7.20)	,218(	0.80)	,219(	0.40)	,703(	0.80)	,742(	2.88)	,796(	5.00)	,
	810(	0.50)	,869(	0.50)	,899(	0.30)	,1092(	3.50)	,1102(	0.80)	,1103(	0.14)	,
	1119(	32.40)	,1120(	1.50)	,1142(	4.20)	,1143(	1.00)	,1151(	5.85)	,1193(	1.00)	,
<i>Aristeus</i> sp	682(	0.25)	,811(	0.45)	,743(	0.30)							
<i>Aristeus viridens</i>	397(	0.60)	,419(	0.40)	,1101(	0.10)	,1103(	9.52)	,418(	0.65)	,1102(	1.75)	,
	457(	0.20)											
<i>Aristeus antillensis</i>	684(	0.90)	,1041(	0.50)	,1044(	0.40)							
<i>Plesionopaeus edwardsianus</i>	6(	2.20)	,11(	0.00)	,391(	0.60)	,397(	7.20)	,418(	5.67)	,420(	5.00)	,
	422(	0.20)	,579(	3.71)	,613(	19.70)	,682(	1.10)	,684(	6.90)	,702(	0.10)	,
	743(	2.85)	,811(	1.50)	,924(	11.10)	,980(	6.80)	,1012(	4.20)	,1041(	1.90)	,
	1045(	3.20)	,7(	1.70)	,395(	0.30)	,419(	3.20)	,568(	7.00)	,616(	20.00)	,
	685(	1.00)	,800(	7.50)	,925(	3.50)	,1040(	1.70)	,390(	0.00)	,421(	5.33)	,
	683(	2.00)	,879(	0.20)	,1044(	2.00)	,398(	0.10)	,703(	0.80)	,612(	6.50)	,
	1011(	5.60)											
<i>Benthesicymus bartletti</i>	743(	3.30)											
Caridea	146(	0.00)	,980(	1.05)									
CRANGONIDAE	417(	0.00)	,568(	12.80)	,612(	0.00)	,790(	0.00)	,809(	0.00)	,810(	0.00)	,
<i>Sicyonia</i> sp.	450(	0.17)	,732(	0.00)									
<i>Pontocaris</i> sp.	107(	0.00)	,145(	0.00)	,1151(	0.02)							
<i>Glyphocrangon</i> sp	115(	0.00)	,120(	0.00)	,146(	0.00)	,418(	2.62)	,420(	0.80)	,422(	2.40)	,
	613(	0.20)	,682(	2.04)	,684(	4.20)	,702(	1.40)	,743(	1.80)	,810(	1.00)	,
	119(	0.00)	,164(	0.00)	,421(	0.27)	,616(	9.60)	,685(	1.60)	,796(	11.30)	,
	145(	0.00)	,457(	0.40)	,742(	5.28)	,419(	4.00)	,811(	0.90)	,683(	1.50)	,
	1012(	0.60)											
<i>Glyphocrangon aurantica</i>	1040(	1.00)	,1045(	2.20)									
<i>Glyphocrangon neglecta</i>	1092(	27.30)	,1102(	0.03)	,1103(	0.14)	,1040(	0.40)	,1043(	0.60)	,1120(	3.30)	,
	1142(	2.40)	,1151(	1.17)	,1193(	0.60)							
HIPPOLYTIIDAE	390(	0.71)	,392(	0.20)	,395(	0.60)							
<i>Exhyppolysmata oplophoroides</i>	869(	0.20)											
<i>Gnathophausia ingens</i>	684(	0.30)											
NEMATOCARCINIDAE	924(	0.20)											
<i>Nematocarcinus rotundus</i>	418(	0.65)	,419(	0.40)	,420(	3.00)	,421(	4.00)	,612(	49.50)	,613(	47.50)	,
	616(	180.00)	,684(	5.40)	,685(	0.20)	,743(	1.80)	,800(	0.25)	,811(	1.50)	,
	822(	3.60)	,924(	15.20)	,1040(	2.40)	,1041(	0.62)	,1045(	0.80)			
OPLOPHORIDAE	682(	1.02)	,683(	6.30)	,742(	0.12)	,743(	1.80)					
<i>Scanthephyra</i> sp.	457(	0.20)											
<i>Scanthephyra armata</i>	1092(	2.24)	,420(	4.50)	,683(	2.70)	,1041(	1.45)	,1045(	0.80)	,682(	0.80)	,
	1044(	2.90)	,1040(	3.00)									
<i>Scanthephyra eximia</i>	743(	4.50)	,1012(	1.60)	,1011(	1.90)							

<i>Uliophoris</i> sp	1143(	0.00)												
<i>Uliophoris gracillirostris</i>	107(	3.60)	1093(	0.47)	1092(	0.14)	1102(	0.03)						
PANDALIDAE	219(	0.00)	390(	0.35)	391(	0.30)	392(	0.20)	395(	1.80)	398(	0.60)		
	790(	0.00)	823(	0.00)	869(	0.10)	869(	0.06)						
<i>Heterocarpus</i> sp	189(	0.00)	219(	0.00)	218(	0.00)	1151(	0.07)						
<i>Plesionika</i> sp	115(	0.00)	146(	0.75)	175(	0.00)	191(	0.00)	217(	0.60)	219(	0.04)		
	398(	0.00)	576(	2.40)	1010(	0.00)	145(	0.20)	185(	0.36)	218(	0.00)		
	417(	0.00)	164(	1.00)	396(	0.00)	199(	0.00)	601(	0.35)	1158(	1.60)		
<i>Plesionika edwardsii</i>	1093(	0.59)	1101(	2.40)	1103(	0.14)	107(	0.00)	524(	0.15)	526(	0.75)		
	578(	0.60)	777(	0.00)	791(	0.00)	815(	1.50)	823(	0.00)	899(	0.00)		
	127(	1.00)	577(	1.00)	790(	1.60)	822(	0.75)	1042(	0.20)	525(	1.58)		
	792(	0.60)	742(	0.00)	878(	0.90)	1119(	2.40)	1130(	0.14)	1143(	0.35)		
	1151(	0.39)	1194(	1.00)										
<i>Plesionika polycanthonensis</i>	1092(	1.05)												
PENAEIDAE	524(	2.10)	525(	1.42)	526(	2.25)	576(	2.40)	577(	2.00)	578(	2.20)		
	601(	0.00)	682(	0.17)	879(	7.00)								
<i>Parapenaeus</i> sp	218(	0.30)	878(	0.68)	219(	0.40)								
<i>Parapenaeus longirostris</i>	1093(	11.71)	823(	0.80)	1023(	20.00)	1135(	1.00)	1136(	0.07)				
<i>Penaeopsis</i> sp	139(	1.00)	1043(	5.20)	1042(	0.20)								
<i>Penaeopsis serrata</i>	1093(	1.05)	1094(	32.00)	1102(	0.45)	1103(	0.42)	107(	12.00)	115(	12.60)		
	120(	7.20)	145(	4.20)	185(	2.60)	219(	2.40)	1042(	4.40)	114(	1.60)		
	139(	50.00)	218(	4.00)	119(	0.30)	417(	7.60)	146(	23.25)	1119(	3.60)		
	1130(	0.42)	1142(	1.80)	1194(	0.20)	685(	0.20)	702(	5.80)	703(	1.40)		
	742(	1.68)	780(	5.25)	796(	0.50)	1042(	0.60)	1043(	6.60)				
<i>Penaeus</i> sp	816(	0.00)												
<i>penaeus notialis</i>	79(	0.90)	81(	0.30)	83(	4.20)	89(	10.60)	90(	23.60)	90(	1.60)		
	113(	0.10)	131(	5.40)	132(	0.00)	133(	0.80)	144(	0.10)	151(	0.36)		
	152(	0.70)	166(	0.80)	168(	0.00)	172(	1.00)	173(	4.20)	174(	5.10)		
	198(	0.20)	207(	2.00)	208(	0.00)	232(	0.60)	233(	0.00)	245(	0.16)		
	250(	0.40)	251(	0.40)	255(	0.06)	256(	0.60)	258(	0.20)	260(	1.20)		
	262(	0.20)	266(	0.20)	268(	0.10)	269(	1.20)	277(	1.60)	279(	1.40)		
	286(	1.40)	288(	0.00)	289(	1.00)	294(	0.40)	295(	2.00)	296(	4.00)		
	297(	0.08)	298(	0.10)	321(	2.00)	330(	1.00)	338(	0.00)	339(	0.00)		
	345(	0.00)	352(	0.20)	354(	0.50)	355(	1.00)	360(	0.17)	361(	1.00)		
	365(	0.60)	366(	3.00)	368(	4.40)	380(	0.80)	383(	3.80)	384(	3.00)		
	385(	4.40)	399(	2.00)	400(	5.50)	401(	6.20)	403(	0.80)	427(	8.00)		
	429(	10.40)	430(	2.00)	432(	0.20)	433(	0.00)	438(	0.00)	440(	0.00)		
	443(	0.00)	444(	0.80)	445(	1.00)	446(	0.80)	447(	2.20)	448(	2.20)		
	451(	1.20)	452(	0.00)	453(	0.00)	454(	4.80)	464(	3.00)	484(	5.40)		
	486(	0.80)	488(	1.08)	490(	1.60)	494(	1.20)	535(	0.30)	538(	1.20)		
	539(	0.20)	541(	0.18)	545(	0.40)	547(	1.03)	548(	0.20)	553(	0.00)		
	554(	0.10)	557(	0.20)	558(	0.20)	559(	0.40)	560(	0.00)	561(	0.60)		
	567(	2.00)	592(	0.00)	593(	6.00)	595(	1.20)	596(	1.40)	599(	0.00)		
	600(	0.48)	603(	2.40)	604(	0.10)	606(	0.80)	642(	1.37)	643(	0.60)		
	652(	0.40)	653(	1.40)	655(	0.00)	664(	2.80)	669(	0.20)	671(	0.43)		
	672(	1.00)	673(	1.80)	677(	1.20)	678(	0.15)	679(	1.40)	681(	0.60)		
	686(	4.40)	692(	0.20)	704(	2.00)	705(	3.40)	706(	8.40)	711(	0.60)		
	712(	4.00)	713(	43.00)	714(	3.00)	715(	1.50)	720(	0.00)	721(	4.80)		
	722(	0.20)	723(	1.60)	724(	0.80)	725(	0.40)	729(	0.00)	730(	0.00)		
	733(	0.00)	738(	1.80)	756(	0.69)	761(	0.00)	814(	0.20)	817(	1.80)		
	825(	0.00)	831(	4.70)	840(	0.00)	842(	0.20)	843(	2.00)	845(	2.00)		
	846(	3.20)	854(	0.60)	858(	1.00)	862(	0.00)	866(	0.00)	867(	9.60)		
	872(	0.90)	905(	0.30)	906(	2.00)	914(	0.60)	915(	0.00)	920(	1.70)		
	937(	0.26)	938(	0.20)	971(	0.38)	989(	3.16)	992(	0.12)	993(	1.20)		
	1000(	0.60)	1003(	0.00)	1004(	0.60)	1007(	4.20)	1008(	4.40)	1009(	9.20)		
	1010(	0.00)	1010(	3.20)	1014(	7.30)	1027(	0.30)	1031(	0.70)	1038(	0.50)		
	1051(	9.00)	1052(	7.70)	1053(	0.30)	1050(	3.60)	1061(	2.56)	1062(	10.80)		

Panaeus notialis (cont.)

1063	5.76	1069	4.80	1070	0.80	1071	2.24	1072	1.04	1073	1.44
1074	2.00	1075	6.42	1076	2.10	1077	40.00	1082	4.05	1107	6.40
1138	0.10	1140	0.22	1144	0.30	1145	0.00	1149	0.30	1162	0.22
1163	0.02	1166	0.06	1167	0.50	1171	0.26	1172	0.10	1174	1.00
1176	0.04	1177	0.20	1179	0.20	1182	1.17	1183	6.80	1185	1.00
1188	0.06	1189	0.20	1191	10.80	1192	0.10	1208	0.20		
1	19.20	3	2.20	14	0.00	16	0.80	39	1.00	43	0.00
46	7.20	51	3.60	2	0.60	15	1.00	42	0.20	47	0.80
13	0.00	44	0.00	23	2.20	61	1.00	59	0.40	64	2.40
69	0.00	71	1.80	75	0.60	79	12.90	82	0.70	85	0.00
89	6.20	92	1.00	95	0.00	98	0.40	103	1.80	166	0.20
169	0.10	184	0.20	263	1.00	279	0.10	309	0.00	330	0.00
339	2.00	354	0.50	356	4.20	360	0.86	366	0.40	389	4.00
371	1.60	377	0.00	380	0.20	385	0.00	389	1.20	401	1.20
404	0.00	432	0.30	437	0.00	445	1.80	453	4.83	491	1.80
625	7.20	633	0.00	640	12.80	653	2.20	664	1.40	673	4.20
679	2.40	687	3.60	691	12.00	699	0.00	711	1.60	719	2.20
29	0.00	68	1.20	74	0.00	81	0.10	88	0.70	94	4.20
101	1.29	167	0.30	260	4.20	308	240.00	338	0.00	355	0.00
361	0.00	370	0.00	378	3.40	387	0.00	403	2.40	433	5.20
449	1.20	594	0.13	639	9.80	654	3.50	677	0.80	689	3.80
709	4.80	62	6.00	78	10.80	90	10.00	112	0.30	269	2.80
352	0.60	368	0.60	384	0.40	409	0.00	454	26.40	641	3.00
686	0.20	715	14.00	70	1.60	96	1.80	310	6.40	375	0.00
436	0.50	671	3.43	83	20.00	358	2.77	626	0.50	174	1.80
695	0.30	400	0.00	720	0.80	722	0.20	725	1.20	728	1.60
730	10.00	733	12.00	833	0.60	843	0.20	854	0.70	899	0.60
937	0.04	941	0.58	946	0.56	948	5.60	965	3.80	968	2.52
971	0.40	990	0.04	999	2.40	1003	0.50	1008	0.20	1010	0.20
1022	12.04	1028	0.05	1036	0.14	1038	0.60	1051	0.24	1054	0.24
1060	29.80	1064	0.84	1068	4.80	1070	10.72	1076	0.74	721	0.30
726	4.80	732	3.20	842	1.20	858	1.00	938	0.10	947	3.80
967	0.42	987	1.00	1002	0.50	1009	3.20	1023	6.00	1037	2.00
1053	1.80	1061	6.40	1069	57.60	723	0.00	821	0.15	920	1.10
961	4.10	993	1.00	1018	0.02	1039	2.00	1065	0.44	793	0.00
944	2.10	1007	0.80	1056	0.42	845	0.20	1030	2.60	969	1.78
1073	10.12	1158	1.00	1161	0.20	1168	0.20	1169	0.56	1183	2.40

Panaeus brasiliensis

1095	0.30	1099	0.54	5	1.80	9	0.30	8	0.00	12	0.20
71	0.00	39	1.00	64	0.80	81	0.10	90	0.00	123	0.00
127	0.10	133	0.00	143	0.00	152	0.00	174	0.20	183	0.40
222	0.07	227	1.80	233	0.00	255	0.04	258	1.60	260	0.00
267	1.20	277	0.10	296	1.00	321	2.40	331	0.80	346	0.00
355	0.20	367	3.20	382	4.80	384	0.00	399	4.20	401	0.00
427	6.60	433	0.80	438	0.70	439	0.64	441	25.00	443	0.80
445	1.00	450	0.00	452	7.20	460	1.00	464	0.00	467	6.20
473	1.20	484	0.20	488	0.00	491	0.00	511	0.00	553	0.20
556	0.09	567	1.00	614	1.00	36	0.00	78	0.60	122	1.20
131	3.60	147	0.20	178	0.00	226	3.40	254	0.40	259	0.00
268	0.60	312	1.60	345	3.40	366	0.00	383	1.80	400	2.40
429	0.70	436	0.24	442	0.60	449	0.00	454	0.00	466	4.00
481	1.60	490	0.00	548	3.20	557	0.40	52	1.80	125	0.50
173	0.20	232	0.20	266	1.40	330	2.00	368	0.40	423	0.80
440	1.60	451	1.20	468	0.30	496	0.40	574	0.14	83	0.10
184	0.70	279	3.00	385	0.20	444	0.80	486	2.50	138	0.20
352	0.40	461	0.20	256	2.20	554	0.20	437	0.50	617	1.80
619	6.60	627	3.00	643	1.80	646	0.00	650	0.00	652	5.20

Penaeus brasiliensis (cont.)

	661(	0.00)	, 663(	1.00)	, 686(	1.00)	, 705(	0.60)	, 707(	3.20)	, 713(	5.00)	,
	721(	0.60)	, 724(	0.80)	, 730(	0.00)	, 733(	0.00)	, 749(	0.00)	, 765(	1.40)	,
	784(	0.20)	, 791(	0.40)	, 795(	0.40)	, 803(	0.80)	, 815(	1.20)	, 824(	0.00)	,
	830(	0.50)	, 833(	5.00)	, 839(	0.10)	, 845(	0.20)	, 867(	0.10)	, 877(	1.60)	,
	890(	0.50)	, 936(	4.36)	, 938(	4.40)	, 949(	0.12)	, 951(	0.10)	, 977(	0.24)	,
	981(	0.40)	, 1000(	0.02)	, 1010(	0.50)	, 1021(	0.00)	, 618(	4.80)	, 634(	4.40)	,
	648(	0.30)	, 653(	5.00)	, 672(	0.40)	, 706(	7.00)	, 714(	7.50)	, 729(	0.00)	,
	737(	1.40)	, 770(	0.00)	, 792(	0.24)	, 814(	4.00)	, 825(	0.00)	, 834(	3.20)	,
	854(	0.90)	, 881(	16.00)	, 937(	2.70)	, 950(	1.40)	, 979(	1.30)	, 1008(	0.16)	,
	1027(	0.40)	, 626(	6.80)	, 651(	0.60)	, 698(	10.40)	, 722(	0.20)	, 759(	0.00)	,
	801(	0.40)	, 831(	0.20)	, 872(	0.00)	, 939(	1.40)	, 990(	1.26)	, 644(	1.80)	,
	712(	0.20)	, 787(	0.20)	, 842(	8.60)	, 956(	0.00)	, 662(	4.40)	, 816(	0.00)	,
	1014(	0.40)	, 732(	0.00)	, 919(	0.16)	, 1030(	0.00)	, 1051(	0.24)	, 1053(	0.60)	,
	1055(	0.20)	, 1063(	1.92)	, 1072(	8.80)	, 1075(	1.22)	, 1082(	1.20)	, 1088(	0.10)	,
	1031(	0.40)	, 1050(	0.00)	, 1071(	1.12)	, 1076(	0.14)	, 1091(	0.20)	, 1052(	3.80)	,
	1073(	4.56)	, 1062(	3.60)	, 1084(	2.00)	, 1107(	2.00)	, 1118(	2.20)	, 1133(	0.04)	,
	1134(	1.00)	, 1145(	0.00)	, 1152(	0.16)	, 1155(	0.20)	, 1158(	2.00)	, 1159(	3.30)	,
	1160(	3.60)	, 1163(	0.02)	, 1174(	0.40)	, 1176(	1.20)	, 1177(	0.02)	, 1185(	0.10)	,
	1191(	0.00)	, 1192(	27.50)	, 1195(	2.10)	, 1201(	0.16)	, 1202(	0.70)	, 1204(	0.40)	,
	1208(	0.10)	, 1210(	1.00)									,
Penaeus schmitti	46(	0.80)	, 70(	0.50)	, 75(	1.10)	, 85(	0.00)	, 89(	0.30)	, 95(	1.20)	,
	101(	2.57)	, 167(	0.24)	, 205(	0.50)	, 242(	5.00)	, 250(	0.20)	, 262(	0.50)	,
	294(	0.14)	, 358(	5.60)	, 369(	0.80)	, 378(	0.20)	, 402(	0.00)	, 445(	0.40)	,
	454(	1.20)	, 539(	0.00)	, 541(	0.53)	, 544(	0.40)	, 546(	2.40)	, 559(	1.00)	,
	668(	0.80)	, 726(	0.80)	, 948(	0.10)	, 966(	0.20)	, 993(	0.08)	, 1002(	1.52)	,
	62(	0.00)	, 76(	0.00)	, 92(	0.30)	, 130(	0.20)	, 240(	0.00)	, 261(	0.08)	,
	339(	0.40)	, 370(	0.00)	, 444(	0.00)	, 538(	0.40)	, 543(	1.00)	, 558(	0.20)	,
	725(	0.40)	, 961(	0.24)	, 995(	0.60)	, 74(	0.00)	, 98(	1.60)	, 244(	11.40)	,
	358(	0.00)	, 453(	0.33)	, 545(	0.60)	, 860(	0.40)	, 87(	2.00)	, 293(	0.00)	,
	540(	2.80)	, 987(	1.40)	, 174(	0.20)	, 624(	9.60)	, 389(	0.30)	, 1005(	2.00)	,
	1018(	0.40)	, 1030(	0.00)	, 1054(	6.00)	, 1006(	2.00)	, 1031(	0.04)	, 1022(	4.76)	,
	1065(	3.00)	, 1169(	0.24)									,
Penaeus aztecus	1107(	0.00)	, 722(	0.00)	, 1073(	0.24)							,
Trachypenaeus sp	453(	0.50)	, 454(	3.60)	, 713(	15.00)	, 721(	1.20)	, 722(	6.00)	, 723(	5.60)	,
	724(	5.40)	, 730(	2.00)	, 733(	0.00)	, 1014(	19.20)	, 1022(	0.00)	, 1023(	0.80)	,
	1031(	0.00)	, 1037(	0.00)	, 1051(	0.00)	, 1053(	1.80)	, 1063(	4.32)	, 1064(	0.44)	,
	1075(	0.24)	, 1076(	0.30)	, 1174(	1.34)	, 1178(	0.00)	, 1183(	7.52)	, 1191(	3.60)	,
Trachypenaeus similis	1009(	1.10)	, 1010(	1.30)	, 1052(	4.20)	, 1061(	1.28)	, 1062(	0.00)	, 1069(	4.80)	,
	1070(	4.16)	, 1071(	6.40)	, 1073(	0.72)							,
Trachypenaeus constrictus	1169(	1.20)	, 1170(	0.80)	, 1172(	8.50)	, 1073(	1.44)					,
Xiphopenaeus kroveri	1(	57.60)	, 15(	4.20)	, 38(	4.80)	, 46(	0.00)	, 62(	13.80)	, 69(	2.00)	,
	74(	0.00)	, 76(	2.40)	, 85(	286.00)	, 87(	1.40)	, 92(	44.00)	, 95(	14.40)	,
	98(	0.80)	, 130(	1.80)	, 221(	0.00)	, 261(	27.60)	, 269(	0.02)	, 308(	720.00)	,
	310(	17.60)	, 358(	23.08)	, 369(	23.20)	, 375(	18.00)	, 389(	76.80)	, 410(	12.40)	,
	430(	2.00)	, 543(	26.00)	, 545(	20.00)	, 558(	6.00)	, 639(	63.00)	, 641(	14.00)	,
	700(	16.00)	, 711(	4.60)	, 733(	3.60)	, 946(	5.10)	, 965(	15.00)	, 2(	0.60)	,
	46(	17.60)	, 68(	0.00)	, 75(	3.20)	, 86(	36.00)	, 94(	0.00)	, 101(	20.57)	,
	244(	87.36)	, 294(	4.94)	, 356(	14.00)	, 371(	10.40)	, 402(	9.00)	, 539(	5.40)	,
	546(	3.60)	, 640(	27.20)	, 705(	1.00)	, 941(	0.28)	, 967(	0.06)	, 25(	0.00)	,
	70(	4.60)	, 87(	0.00)	, 174(	3.20)	, 309(	29.60)	, 386(	10.00)	, 544(	10.80)	,
	699(	0.00)	, 948(	0.80)	, 61(	0.20)	, 96(	18.00)	, 360(	0.00)	, 594(	0.26)	,
	84(	33.60)	, 416(	1.00)	, 262(	35.20)	, 732(	5.20)	, 985(	27.20)	, 993(	3.14)	,
	999(	0.48)	, 1006(	20.90)	, 1008(	2.40)	, 1037(	3.00)	, 1054(	0.14)	, 1065(	16.80)	,
	987(	1.00)	, 1002(	27.32)	, 1036(	4.90)	, 1061(	16.64)	, 995(	0.40)	, 1039(	12.00)	,
	1007(	3.00)	, 1082(	0.00)	, 1151(	1.69)	, 1166(	0.02)					,
Nematopalaemon schmitti	15(	0.60)	, 69(	0.20)	, 84(	33.60)	, 86(	312.00)	, 91(	2.00)	, 358(	87.69)	,

Nematopalaemon schmitti (cont.)													
	402(	6.00)	539(	3.00)	641(	11.00)	733(	0.00)	985(	2.40)	62(	12.00)	
	85(	176.00)	189(	0.00)	454(	0.00)	675(	25.20)	987(	0.00)	75(	1.60)	
	389(	28.20)	965(	1.40)	87(	0.00)	545(	8.00)					
PASPHEIIDAE													
Fastiphaea mertiani													
	1093(	0.12)	743(	0.03)	1041(	0.03)							
Sergina robusta													
	1040(	0.28)											
SULENOCERIDAE													
	113(	26.80)	115(	8.20)	145(	0.00)	164(	1.60)	175(	0.90)	150(	1.60)	
	198(	0.00)	199(	0.60)	217(	1.76)	218(	0.20)	390(	3.53)	391(	1.00)	
	392(	5.90)	393(	0.26)	395(	4.80)	396(	7.80)	397(	2.00)	398(	0.50)	
	416(	1.60)	662(	0.20)	675(	12.60)	867(	0.00)					
Solienocera sp													
	119(	0.80)	139(	0.40)	175(	3.00)	190(	0.30)	198(	0.00)	217(	1.80)	
	516(	5.60)	525(	1.89)	568(	6.70)	577(	9.60)	579(	12.00)	594(	0.78)	
	685(	0.00)	780(	0.00)	792(	0.90)	809(	0.80)	146(	1.88)	191(	0.20)	
	219(	0.00)	526(	1.05)	578(	1.80)	596(	0.00)	791(	0.00)	899(	0.90)	
	185(	2.52)	524(	3.60)	593(	0.00)	808(	5.25)	199(	0.00)	666(	2.40)	
	576(	17.40)	1143(	0.15)									
Solienocera acuminata													
	1093(	11.71)	1094(	0.25)	1135(	2.60)	1143(	0.00)	1194(	0.60)			
Pleoticus robustus													
	1092(	7.70)	1093(	7.02)	1101(	7.70)	1102(	0.65)	11(	1.10)	119(	1.60)	
	417(	4.00)	419(	2.30)	422(	7.40)	790(	13.90)	811(	1.80)	823(	1.00)	
	878(	1.58)	115(	1.80)	418(	1.96)	796(	1.60)	822(	3.30)	879(	0.10)	
	145(	0.10)	810(	6.00)	421(	3.20)	869(	0.00)	1119(	3.60)	1120(	2.85)	
	1129(	0.65)	1130(	7.70)	1143(	0.80)	1151(	3.25)	1193(	2.00)			
	146(	3.00)											
Hymenophaeus sp													
SULEIDAE													
Achnirus sp													
	70(	0.40)	75(	0.00)									
Achnirus lineatus													
	130(	0.00)	358(	0.92)									
Hymnachirus nudus													
	147(	0.00)	154(	0.20)	312(	0.60)	652(	0.20)	1171(	1.80)			
Irtinctes insectipes													
	1114(	0.00)	1118(	0.40)	169(	0.00)	1167(	0.30)					
SPARIDAE													
Arctosargus frombolalis													
	220(	0.40)	124(	5.20)	132(	0.47)	130(	5.00)	134(	5.40)	152(	0.90)	
	135(	2.40)	216(	19.50)	464(	29.50)	753(	0.80)	1088(	7.00)			
Calanus sp													
	266(	0.40)	276(	8.00)									
Calanus calanus													
	40(	16.40)	53(	1.40)	56(	1.40)	66(	3.40)	161(	116.40)	163(	181.00)	
	163(	26.00)	196(	3.20)	935(	0.14)	981(	6.00)	1117(	135.50)			
	52(	10.00)	112(	1.20)	118(	9.00)	176(	4.60)	195(	18.00)	266(	5.00)	
	277(	11.20)	282(	0.60)	425(	1.60)	426(	16.80)	499(	21.00)	500(	3.24)	
	931(	1.04)											
Calanus penus													
	182(	20.40)	214(	12.80)	234(	37.80)	246(	6.80)	247(	4.60)	277(	5.40)	
	282(	1.40)	349(	0.60)	515(	2.40)	522(	1.68)	529(	1.00)	531(	4.80)	
	532(	14.40)	533(	23.40)	534(	8.60)	536(	0.90)	565(	5.60)	566(	2.00)	
	569(	6.00)	574(	3.00)	588(	9.60)	621(	1.60)	623(	13.00)	650(	8.00)	
	651(	1.80)	696(	11.00)	698(	12.80)	792(	10.80)	804(	1.60)	818(	7.40)	
	821(	7.50)	825(	2.40)	827(	22.00)	828(	3.40)	830(	32.70)	836(	1.80)	
	837(	4.30)	863(	7.00)	864(	5.00)	884(	0.60)	888(	0.20)	896(	4.00)	
	901(	4.00)	951(	0.30)	959(	1.80)	963(	0.22)	972(	0.10)	973(	0.06)	
	1046(	3.50)	1047(	8.40)	1049(	10.80)	1122(	0.00)	1133(	12.30)	1138(	47.40)	
	1144(	1.80)	1146(	8.70)	1152(	1.80)	1153(	16.00)	1154(	37.50)	1157(	14.50)	
	1160(	3.90)	1189(	2.20)	1191(	0.60)							
Calanus pennata													
	203(	6.20)	207(	7.60)	214(	4.40)	259(	2.80)	279(	8.00)	283(	26.40)	
	317(	3.60)	316(	10.60)	319(	2.80)	336(	4.80)	349(	6.20)	350(	4.40)	
	364(	4.00)	383(	2.00)	408(	6.00)	504(	141.00)	506(	2.46)	518(	9.00)	
	519(	17.80)	520(	24.00)	529(	1.20)	530(	2.20)	531(	10.80)	532(	2.00)	
	533(	2.00)	534(	2.00)	537(	0.60)	567(	3.00)	571(	3.20)	574(	5.00)	
	575(	34.60)	580(	3.09)	582(	29.00)	583(	3.50)	584(	27.20)	585(	13.00)	
	586(	19.20)	587(	5.60)	589(	11.20)	591(	3.91)	605(	2.00)	618(	1.37)	

Calamus pennatula (cont.)

621(	7.80)	, 646(	0.80)	, 650(	8.00)	, 651(	4.80)	, 659(	72.00)	, 663(	12.50)	,	
764(	1.40)	, 798(	169.00)	, 797(	6.40)	, 804(	7.70)	, 814(	7.80)	, 815(	16.60)	,	
816(	10.50)	, 825(	12.72)	, 830(	12.30)	, 864(	6.00)	, 866(	4.20)	, 870(	0.60)	,	
871(	7.80)	, 873(	3.60)	, 874(	9.00)	, 876(	21.20)	, 877(	20.00)	, 881(	2.00)	,	
884(	10.40)	, 885(	0.00)	, 886(	4.00)	, 887(	0.40)	, 888(	74.00)	, 889(	2.00)	,	
890(	14.00)	, 894(	10.00)	, 895(	1.00)	, 896(	4.00)	, 910(	2.00)	, 923(	0.60)	,	
926(	7.80)	, 950(	4.80)	, 951(	0.30)	, 953(	5.00)	, 990(	2.80)	, 1000(	4.60)	,	
1047(	1.50)	, 1049(	1.68)	, 1114(	2.19)	, 1122(	0.00)	, 1124(	93.10)	, 1132(	4.80)	,	
1139(	5.00)	, 1140(	0.00)	, 1146(	1.30)	, 1154(	2.40)	, 1159(	4.60)	, 1160(	10.50)	,	
1185(	3.00)	, 1186(	4.70)	, 1189(	15.00)	, 1190(	26.00)	, 1192(	2.00)	, 1191(	1.70)	,	
1196(	0.06)	, 1197(	8.40)	, 1198(	28.00)	, 1199(	8.40)	, 1200(	15.00)	, 1201(	20.60)	,	
1202(	18.62)	, 1204(	1.20)	, 1205(	0.60)	, 1206(	1.80)	, 1207(	4.00)	, 1208(	0.80)	,	
1209(	0.40)											,	
Calamus cervigon	234(	1.00)	, 266(	0.20)	, 279(	1.00)	, 537(	0.30)	, 839(	0.30)	, 1082(	3.00)	,
	1158(	2.00)	, 1160(	0.36)	, 1177(	0.30)	, 1185(	3.00)					,
Calamus nodosus	496(	6.00)											,
Vipiodus caudimaculata	134(	0.94)											,
Lagodon rhomboides	339(	1.60)											,
Pagrus pagrus	140(	1.40)	, 160(	10.80)	, 177(	3.20)	, 179(	5.20)	, 180(	0.72)	, 181(	1.60)	,
	182(	1.20)	, 198(	1.20)	, 259(	4.80)	, 266(	3.20)	, 456(	14.40)	, 499(	1.70)	,
	501(	17.40)	, 508(	1.80)	, 509(	7.60)	, 536(	4.20)	, 537(	3.20)	, 557(	3.60)	,
	562(	11.00)	, 563(	3.00)	, 564(	8.73)	, 764(	1.00)	, 785(	5.00)	, 786(	4.20)	,
	797(	2.00)	, 803(	1.80)	, 804(	1.10)	, 805(	8.40)	, 806(	3.00)	, 807(	2.00)	,
	836(	5.25)	, 837(	7.00)	, 840(	2.10)	, 866(	0.80)	, 874(	11.70)	, 1100(	57.00)	,
	1113(	162.00)	, 1123(	5.40)	, 1125(	1.90)	, 1133(	1.40)	, 1134(	4.80)	, 1160(	9.60)	,
	1186(	3.84)											,
Stenotomus chrysops	505(	13.60)											,

SPHYRAENIDAE

Sphyraena sp	102(	0.00)	, 451(	0.00)	, 1019(	0.70)							,
Sphyraena guachancho	1099(	0.60)	, 1107(	16.00)	, 1108(	12.80)	, 4(	1.20)	, 8(	7.00)	, 13(	5.60)	,
	18(	2.71)	, 22(	0.40)	, 27(	47.60)	, 32(	7.00)	, 39(	147.20)	, 25(	1.80)	,
	30(	136.80)	, 38(	4.80)	, 40(	1.80)	, 41(	3.60)	, 45(	21.20)	, 47(	31.40)	,
	51(	2.93)	, 52(	17.50)	, 57(	6.20)	, 60(	5.60)	, 29(	112.80)	, 58(	13.80)	,
	59(	66.40)	, 64(	5.20)	, 65(	0.60)	, 71(	6.68)	, 50(	1.40)	, 72(	1.00)	,
	73(	5.60)	, 78(	10.60)	, 80(	0.30)	, 81(	0.90)	, 88(	3.00)	, 90(	2.60)	,
	93(	3.40)	, 101(	25.71)	, 104(	28.40)	, 105(	8.40)	, 113(	0.60)	, 118(	3.60)	,
	121(	2.60)	, 124(	223.60)	, 128(	45.00)	, 131(	0.24)	, 132(	14.80)	, 133(	53.20)	,
	133(	1.40)	, 134(	5.00)	, 141(	1.20)	, 153(	4.00)	, 167(	15.20)	, 168(	3.20)	,
	169(	27.84)	, 170(	4.60)	, 203(	4.20)	, 204(	21.40)	, 205(	36.30)	, 206(	4.80)	,
	206(	0.64)	, 210(	3.48)	, 215(	25.60)	, 216(	4.56)	, 220(	5.00)	, 221(	13.00)	,
	232(	0.40)	, 234(	4.40)	, 240(	1.80)	, 243(	6.60)	, 245(	1.40)	, 260(	1.60)	,
	263(	2.00)	, 275(	25.00)	, 277(	1.00)	, 279(	3.20)	, 283(	0.00)	, 289(	2.00)	,
	291(	1.40)	, 292(	0.40)	, 293(	1.20)	, 294(	0.40)	, 296(	1.00)	, 299(	5.18)	,
	300(	15.00)	, 307(	54.00)	, 312(	1.80)	, 313(	2.00)	, 316(	91.00)	, 321(	0.60)	,
	326(	0.60)	, 328(	3.00)	, 329(	18.80)	, 330(	7.60)	, 343(	18.00)	, 345(	0.60)	,
	350(	0.40)	, 352(	1.20)	, 353(	2.80)	, 355(	1.20)	, 357(	4.00)	, 364(	11.20)	,
	9(	21.00)	, 15(	2.40)	, 20(	3.80)	, 366(	8.00)	, 379(	6.80)	, 388(	19.60)	,
	401(	4.80)	, 370(	3.00)	, 387(	2.00)	, 388(	12.00)	, 404(	1.60)	, 415(	64.00)	,
	416(	2.20)	, 424(	5.00)	, 425(	10.00)	, 427(	4.80)	, 434(	19.20)	, 451(	1.60)	,
	455(	4.20)	, 461(	3.20)	, 462(	13.40)	, 463(	4.86)	, 464(	9.50)	, 468(	1.40)	,
	485(	48.80)	, 488(	33.60)	, 492(	7.50)	, 493(	7.20)	, 496(	45.00)	, 520(	45.00)	,
	535(	4.60)	, 537(	2.40)	, 542(	21.60)	, 547(	6.86)	, 549(	9.00)	, 551(	46.20)	,
	552(	1.80)	, 557(	6.00)	, 566(	2.00)	, 590(	5.00)	, 604(	0.50)	, 605(	2.00)	,
	606(	0.40)	, 607(	1.40)	, 614(	5.00)	, 623(	16.20)	, 624(	19.20)	, 627(	3.20)	,
	632(	0.60)	, 633(	33.60)	, 635(	11.20)	, 642(	3.09)	, 643(	1.60)	, 648(	6.00)	,
	653(	8.00)	, 656(	1.40)	, 657(	105.60)	, 664(	0.80)	, 666(	60.00)	, 668(	4.80)	,

Sphyraena guachancho (cont.)

669(	8.40)	, 670(	4.80)	, 687(	2.40)	, 692(	5.60)	, 705(	1.40)	, 708(	1.60)	,
712(	2.80)	, 713(	8.00)	, 737(	2.00)	, 747(	2.00)	, 752(	5.40)	, 753(	5.80)	,
754(	0.40)	, 756(	3.43)	, 757(	12.00)	, 758(	0.90)	, 761(	6.80)	, 762(	2.30)	,
764(	10.40)	, 816(	0.90)	, 837(	11.80)	, 840(	7.80)	, 845(	1.60)	, 851(	4.40)	,
854(	9.70)	, 856(	3.00)	, 860(	5.00)	, 863(	1.60)	, 881(	3.60)	, 914(	1.00)	,
920(	3.00)	, 922(	1.60)	, 929(	3.20)	, 932(	10.50)	, 940(	142.80)	, 942(	13.60)	,
949(	0.80)	, 968(	4.00)	, 974(	36.80)	, 984(	0.38)	, 988(	1.00)	, 992(	2.80)	,
997(	11.20)	, 763(	10.67)	, 832(	3.00)	, 815(	1.00)	, 839(	0.60)	, 841(	7.70)	,
850(	10.00)	, 853(	16.80)	, 855(	20.00)	, 859(	18.00)	, 862(	3.20)	, 866(	3.00)	,
897(	0.48)	, 919(	3.60)	, 921(	3.60)	, 927(	83.20)	, 930(	8.25)	, 936(	2.73)	,
941(	1.40)	, 943(	1.20)	, 951(	1.80)	, 971(	16.00)	, 975(	4.10)	, 986(	104.00)	,
989(	2.20)	, 994(	144.00)	, 998(	90.00)	, 999(	5.80)	, 1001(	5.60)	, 1004(	6.00)	,
1005(	15.00)	, 1014(	0.60)	, 1016(	0.86)	, 1017(	4.00)	, 1025(	49.60)	, 1028(	60.92)	,
1031(	4.00)	, 1035(	15.00)	, 1048(	7.40)	, 1050(	10.20)	, 1067(	7.00)	, 1084(	1.80)	,
1090(	1.80)	, 1000(	2.60)	, 1005(	17.40)	, 1015(	30.20)	, 1024(	5.00)	, 1029(	31.60)	,
1046(	17.80)	, 1057(	8.92)	, 1085(	8.90)	, 1003(	6.00)	, 1017(	18.60)	, 1032(	2.60)	,
1077(	16.00)	, 1009(	1.00)	, 1049(	19.20)	, 1026(	4.80)	, 1091(	6.60)	, 1128(	0.32)	,
1140(	35.67)	, 1141(	4.80)	, 1145(	7.06)	, 1149(	27.80)	, 1156(	0.80)	, 1168(	5.70)	,
1169(	0.40)	, 1170(	4.00)	, 1173(	1.87)	, 1174(	1.00)	, 1175(	1.20)	, 1176(	1.00)	,
1179(	1.20)	, 1180(	0.40)	, 1187(	0.90)	, 1191(	1.00)	, 1207(	1.60)			
1208(	13.50)	, 817(	9.20)	, 818(	7.20)	, 926(	7.00)	, 1122(	0.00)			
Sphyraena barracuda	2(0.00)	, 8(8.00)	, 12(9.60)	, 13(7.60)	, 56(32.40)	, 60(2.40)	,
Sphyraena picudilla	77(38.60)	, 104(1.20)	, 112(24.40)	, 112(7.20)	, 118(14.40)	, 135(16.80)	,
136(	1.40)	, 151(	1.60)	, 154(	1.20)	, 156(	0.40)	, 169(	26.88)	, 171(	1.40)	,
172(	1.60)	, 173(	0.40)	, 174(	0.40)	, 183(	1.40)	, 196(	5.20)	, 197(	37.34)	,
203(	0.80)	, 204(	12.40)	, 214(	3.80)	, 215(	13.50)	, 216(	0.00)	, 220(	0.00)	,
220(	0.00)	, 221(	1.60)	, 224(	32.00)	, 231(	0.20)	, 234(	0.60)	, 252(	1.00)	,
254(	1.40)	, 255(	0.60)	, 256(	4.20)	, 259(	2.20)	, 260(	0.40)	, 263(	15.00)	,
265(	5.20)	, 266(	5.20)	, 272(	24.00)	, 274(	1.12)	, 275(	36.00)	, 276(	102.00)	,
277(	3.00)	, 278(	1.85)	, 279(	1.20)	, 282(	5.20)	, 287(	1.00)	, 288(	1.00)	,
327(	810.38)	, 328(	0.60)	, 331(	0.80)	, 334(	11.00)	, 361(	3.80)	, 364(	3.20)	,
365(	0.40)	, 366(	0.80)	, 379(	20.00)	, 380(	2.40)	, 381(	0.60)	, 384(	1.00)	,
387(	34.00)	, 388(	0.60)	, 400(	0.60)	, 404(	9.40)	, 409(	8.73)	, 414(	3.00)	,
415(	33.00)	, 424(	1.00)	, 425(	10.00)	, 426(	4.00)	, 435(	13.80)	, 455(	8.70)	,
461(	6.00)	, 462(	2.00)	, 464(	32.00)	, 468(	8.00)	, 473(	14.40)	, 474(	6.40)	,
476(	0.80)	, 485(	315.20)	, 486(	13.60)	, 493(	2.40)	, 495(	4.20)	, 527(	1.20)	,
529(	1.00)	, 532(	1.00)	, 535(	19.20)	, 536(	16.80)	, 537(	6.00)	, 549(	8.00)	,
551(	5.60)	, 553(	23.60)	, 554(	286.00)	, 555(	26.60)	, 556(	2.73)	, 557(	72.80)	,
560(	0.80)	, 561(	3.00)	, 562(	70.00)	, 563(	3.50)	, 564(	43.64)	, 565(	0.80)	,
571(	0.80)	, 572(	0.90)	, 574(	0.90)	, 575(	63.00)	, 585(	1.00)	, 590(	4.00)	,
609(	0.60)	, 652(	0.60)	, 656(	1.80)	, 664(	0.80)	, 666(	1.60)	, 667(	42.80)	,
668(	13.60)	, 669(	3.60)	, 670(	5.60)	, 671(	0.64)	, 678(	6.00)	, 679(	5.20)	,
681(	2.40)	, 692(	1.20)	, 693(	3.00)	, 738(	0.60)	, 739(	1.24)	, 740(	0.60)	,
746(	1.00)	, 749(	1.70)	, 752(	12.60)	, 753(	0.30)	, 756(	15.43)	, 757(	15.20)	,
758(	2.80)	, 759(	0.30)	, 761(	3.40)	, 762(	0.20)	, 767(	0.51)	, 770(	2.40)	,
774(	3.20)	, 775(	0.60)	, 784(	15.00)	, 786(	1.50)	, 816(	3.75)	, 831(	15.00)	,
833(	3.20)	, 836(	3.60)	, 837(	9.20)	, 839(	3.00)	, 840(	18.90)	, 841(	1.40)	,
842(	18.40)	, 843(	10.80)	, 846(	374.00)	, 847(	5.52)	, 853(	15.00)	, 855(	10.80)	,
856(	6.30)	, 861(	19.20)	, 862(	2.00)	, 863(	0.80)	, 864(	7.40)	, 872(	0.60)	,
876(	18.50)	, 883(	0.40)	, 896(	55.00)	, 899(	1.20)	, 900(	26.60)	, 904(	0.10)	,
921(	0.32)	, 922(	2.80)	, 929(	1.60)	, 945(	7.80)	, 986(	0.04)	, 992(	1.00)	,
996(	86.50)	, 997(	7.80)	, 1001(	4.60)	, 1004(	8.20)	, 1024(	2.00)	, 1025(	10.80)	,
1026(	3.60)	, 1027(	10.00)	, 1028(	5.22)	, 1032(	0.60)	, 1034(	6.40)	, 1035(	3.50)	,
1046(	8.00)	, 1048(	6.00)	, 1049(	2.40)	, 1051(	7.20)	, 1050(	2.10)	, 1067(	3.20)	,
1082(	6.90)	, 1083(	4.40)	, 1085(	1.80)	, 1100(	2.40)	, 1106(	2.40)	, 1107(	8.00)	,
1128(	5.00)	, 1133(	2.00)	, 1139(	69.00)	, 1145(	2.82)	, 1147(	2.35)	, 1149(	8.00)	,
1153(	0.80)	, 1156(	6.80)	, 1157(	0.90)	, 1163(	1.60)	, 1174(	1.00)	, 1175(	1.20)	,

Sphyræna picudilla (cont.)

1176(1.00)	1177(0.44)	1179(2.00)	1183(0.36)	1188(2.00)	1190(2.10)
1191(1.08)	1207(0.80)	1208(2.40)						

LEPHALOPODA

683(0.30)	811(0.90)								
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Abralia sp.

107(0.00)	1151(0.01)								
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LEPIDOTEUTHIDAE

397(16.50)	398(0.50)	524(2.70)	525(2.05)				
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Pholidoteuthis sp.

392(0.80)	684(4.50)	810(0.10)	683(1.50)	685(0.40)		
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Pholidoteuthis adami

1092(1.10)	419(0.80)	616(39.00)	796(9.80)	892(0.10)	925(3.00)
1012(6.40)	1045(6.00)	421(8.00)	800(9.00)	1011(22.50)	743(3.00)
1044(	6.40)	924(	1.50)	1120(	0.45)	1142(	18.30)	1151(	9.35)	1193(	3.00)

LOLIGINIDAE

172(	1.80)	186(	0.60)	222(	0.48)	312(	0.00)	524(	2.40)	1034(	0.80)
1209(	2.80)										

Loligo sp

110(	6.40)	112(	2.40)	191(	0.20)	192(	0.00)	197(	0.26)	198(	0.00)
199(	0.60)	200(	0.67)	232(	0.40)	254(	52.00)	260(	3.20)	298(	0.00)
315(	4.00)	337(	12.60)	344(	46.40)	404(	12.40)	455(	12.00)	464(	14.00)
486(	12.00)	851(	1.60)	856(	0.40)	862(	6.00)	906(	0.24)	1021(	0.00)
1035(	0.24)	1074(	0.60)	1075(	0.72)	1077(	24.00)				

Loligo pealei

20(	2.40)	22(	0.40)	23(	22.00)	28(	42.80)	30(	1.20)	31(	2.40)
33(	2.00)	34(	1.60)	35(	14.40)	36(	3.60)	37(	10.00)	41(	10.80)
42(	3.40)	45(	10.00)	49(	1.60)	50(	2.50)	52(	4.00)	53(	7.80)
54(	2.30)	56(	5.40)	57(	3.00)	60(	0.00)	58(	14.00)	59(	1.40)
64(	0.60)	65(	2.60)	72(	1.00)	77(	4.20)	80(	0.10)	81(	0.70)
103(	8.40)	104(	0.40)	105(	3.28)	106(	1.40)	109(	3.90)	113(	9.60)
121(	0.00)	122(	1.00)	123(	1.92)	125(	1.20)	127(	0.00)	131(	7.20)
132(	0.00)	133(	0.40)	136(	15.00)	137(	18.00)	138(	31.20)	140(	5.50)
141(	0.80)	144(	12.00)	147(	10.80)	148(	64.80)	149(	111.00)	152(	10.00)
156(	2.00)	157(	4.80)	158(	0.40)	160(	0.14)	165(	1.20)	166(	48.00)
167(	4.66)	168(	23.60)	171(	3.20)	172(	19.40)	173(	0.40)	174(	8.00)
175(	0.00)	182(	7.40)	184(	1.20)	186(	3.60)	188(	28.00)	189(	1.20)
190(	0.00)	191(	0.20)	192(	4.80)	194(	0.84)	197(	2.70)	204(	0.00)
195(	6.00)	208(	1.20)	213(	0.80)	217(	0.20)	222(	16.80)	224(	3.60)
225(	2.20)	232(	0.40)	246(	1.80)	252(	1.04)	253(	2.80)	255(	16.00)
256(	1.20)	259(	3.00)	264(	135.20)	266(	4.00)	267(	6.40)	268(	2.20)
271(	48.80)	271(	0.00)	272(	40.00)	274(	67.20)	275(	176.00)	276(	39.00)
277(	1.80)	278(	2.06)	279(	0.48)	282(	10.40)	288(	7.00)	293(	0.10)
295(	1.40)	296(	2.00)	297(	1.80)	306(	2.80)	316(	1.40)	318(	5.40)
319(	1.40)	321(	4.00)	326(	18.00)	327(	29.44)	362(	0.60)	365(	0.20)
366(	0.00)	367(	0.80)	368(	0.40)	380(	2.80)	381(	1.00)	387(	3.00)
400(	2.40)	401(	0.00)	406(	0.00)	408(	3.00)	409(	14.00)	412(	9.60)
414(	3.20)	415(	9.60)	416(	0.20)	423(	2.00)	424(	0.70)	430(	0.00)
436(	0.24)	440(	3.00)	451(	4.40)	452(	0.90)	455(	1.20)	458(	16.20)
460(	2.00)	461(	27.20)	464(	9.50)	466(	8.00)	469(	37.80)	470(	6.60)
471(	8.60)	472(	3.60)	478(	1.20)	479(	9.90)	481(	55.20)	488(	6.48)
490(	24.00)	491(	60.80)	492(	13.50)	494(	2.70)	495(	4.80)	499(	1.80)
500(	1.92)	501(	0.90)	502(	2.31)	503(	0.80)	508(	0.80)	511(	2.40)
514(	4.40)	515(	1.20)	516(	3.60)	527(	1.60)	528(	0.30)	529(	0.60)
535(	2.80)	538(	15.60)	539(	1.00)	540(	0.00)	544(	0.00)	545(	1.00)
546(	6.00)	551(	2.80)	552(	24.00)	553(	10.00)	554(	10.40)	555(	16.80)
556(	1.20)	561(	2.40)	562(	4.00)	563(	5.00)	564(	4.36)	571(	0.60)
572(	14.40)	573(	7.60)	574(	9.00)	576(	0.60)	577(	2.00)	589(	1.80)
592(	0.00)	593(	1.80)	596(	1.20)	601(	6.00)	603(	1.20)	606(	2.40)
609(	0.00)	633(	0.80)	643(	0.20)	647(	1.60)	648(	0.90)	667(	0.30)
678(	2.40)	679(	1.60)	692(	0.00)	705(	4.20)	707(	3.20)	708(	4.00)
711(	0.60)	712(	4.00)	713(	4.00)	714(	4.50)	715(	3.00)	716(	4.40)
719(	5.00)	725(	1.20)	736(	2.20)	737(	3.20)	738(	0.40)	740(	1.40)
749(	0.40)	752(	0.00)	756(	2.06)	760(	0.40)	761(	0.50)	763(	1.00)

Loligo pealei (cont.)

764(	3.40)	, 765(	17.50)	, 767(	3.09)	, 770(	0.80)	, 771(	0.24)	, 772(	5.00)
774(	0.16)	, 775(	1.20)	, 776(	1.00)	, 784(	3.00)	, 806(	5.00)	, 808(	2.10)
814(	3.00)	, 815(	1.00)	, 816(	0.00)	, 818(	0.00)	, 824(	2.80)	, 826(	2.70)
833(	2.16)	, 834(	4.80)	, 835(	0.20)	, 837(	0.00)	, 839(	10.00)	, 840(	5.10)
842(	1.20)	, 843(	14.80)	, 845(	2.40)	, 847(	12.00)	, 854(	1.60)	, 864(	2.00)
865(	5.20)	, 866(	0.60)	, 871(	0.30)	, 874(	4.50)	, 875(	1.60)	, 886(	2.40)
887(	0.20)	, 905(	0.00)	, 914(	4.40)	, 915(	0.60)	, 916(	0.40)	, 1022(	0.90)
1023(	1.20)	, 1024(	0.70)	, 1027(	6.00)	, 1031(	1.50)	, 1033(	0.04)	, 1046(	5.00)
1049(	4.80)	, 1051(	4.80)	, 1050(	2.40)	, 1056(	1.50)	, 1057(	0.88)	, 1060(	12.00)
1068(	1.28)	, 1072(	2.48)	, 1078(	5.20)	, 1082(	0.84)	, 1085(	0.42)	, 1095(	4.80)
1108(	0.00)	, 1116(	0.00)	, 1134(	0.30)	, 1135(	2.00)	, 1136(	4.51)	, 1140(	0.30)
1145(	4.24)	, 1148(	0.50)	, 1155(	20.74)	, 1159(	1.92)	, 1161(	1.60)	, 1162(	2.89)
1170(	0.07)	, 1176(	0.72)	, 1177(	3.00)	, 1178(	5.40)	, 1178(	2.40)	, 1190(	6.90)
1191(	5.04)	, 1196(	0.80)	, 1198(	0.70)	, 1200(	0.18)	, 1201(	1.76)	, 1204(	0.84)
1205(	1.04)	, 1208(	0.80)								
Loligo piei											
122(	0.00)	, 123(	0.72)	, 124(	0.00)	, 125(	14.20)	, 127(	1.00)	, 128(	0.00)
132(	0.00)	, 133(	2.40)	, 135(	8.40)	, 136(	4.80)	, 138(	40.80)	, 138(	0.00)
140(	13.00)	, 141(	17.00)	, 142(	27.00)	, 143(	13.10)	, 144(	4.40)	, 147(	6.40)
148(	127.20)	, 149(	21.00)	, 151(	63.52)	, 152(	4.60)	, 156(	1.20)	, 157(	9.00)
159(	1.14)	, 160(	0.12)	, 165(	0.20)	, 166(	32.00)	, 170(	11.80)	, 172(	5.20)
173(	0.80)	, 176(	6.80)	, 177(	1.60)	, 178(	0.30)	, 179(	64.00)	, 180(	0.20)
181(	32.20)	, 183(	5.60)	, 195(	9.00)	, 196(	8.80)	, 199(	0.00)	, 203(	57.00)
204(	27.20)	, 205(	0.00)	, 209(	0.00)	, 210(	3.96)	, 213(	4.60)	, 214(	16.00)
215(	2.00)	, 221(	1.60)	, 224(	14.40)	, 225(	5.20)	, 227(	5.10)	, 229(	0.30)
230(	7.60)	, 231(	1.20)	, 232(	4.00)	, 247(	0.00)	, 252(	23.40)	, 253(	26.40)
255(	50.00)	, 256(	2.40)	, 257(	0.20)	, 258(	9.60)	, 259(	24.00)	, 260(	3.20)
263(	0.60)	, 266(	12.00)	, 267(	8.00)	, 268(	6.40)	, 271(	68.00)	, 271(	0.00)
272(	26.40)	, 276(	45.00)	, 277(	1.92)	, 282(	62.40)	, 299(	0.27)	, 300(	0.90)
323(	95.00)	, 324(	84.00)	, 329(	9.00)	, 331(	1.60)	, 332(	3.90)	, 333(	2.80)
335(	5.00)	, 336(	42.00)	, 340(	31.00)	, 341(	26.00)	, 342(	15.20)	, 345(	20.00)
346(	4.00)	, 347(	3.00)	, 348(	2.10)	, 349(	2.20)	, 350(	1.00)	, 351(	18.00)
352(	5.00)	, 355(	0.60)	, 361(	2.20)	, 362(	6.40)	, 363(	8.00)	, 365(	0.40)
366(	0.00)	, 368(	0.40)	, 372(	1.20)	, 373(	1.40)	, 380(	2.00)	, 381(	1.80)
382(	0.60)	, 383(	3.20)	, 384(	5.60)	, 385(	2.40)	, 399(	1.00)	, 400(	4.80)
401(	0.40)	, 415(	1.00)	, 423(	3.40)	, 424(	3.20)	, 425(	2.00)	, 440(	2.00)
450(	0.09)	, 451(	6.00)	, 452(	0.60)	, 453(	0.50)	, 455(	0.90)	, 456(	8.00)
458(	8.40)	, 460(	9.00)	, 462(	17.00)	, 463(	28.57)	, 464(	16.50)	, 466(	32.00)
467(	64.00)	, 468(	12.50)	, 469(	24.30)	, 470(	22.00)	, 471(	8.60)	, 472(	9.30)
473(	55.80)	, 474(	77.60)	, 476(	3.00)	, 480(	98.00)	, 481(	102.00)	, 482(	10.50)
483(	2.40)	, 488(	4.32)	, 490(	41.60)	, 494(	6.90)	, 495(	7.20)	, 499(	9.40)
500(	1.44)	, 502(	4.37)	, 503(	7.00)	, 505(	2.40)	, 506(	0.80)	, 507(	2.31)
508(	2.00)	, 509(	5.00)	, 510(	2.00)	, 512(	3.75)	, 513(	1.80)	, 515(	1.20)
518(	7.00)	, 519(	5.00)	, 521(	6.00)	, 522(	1.68)	, 523(	7.71)	, 527(	3.20)
528(	1.20)	, 529(	3.60)	, 530(	18.00)	, 531(	3.20)	, 532(	3.40)	, 533(	2.20)
535(	0.30)	, 536(	2.70)	, 537(	5.40)	, 548(	10.40)	, 549(	54.00)	, 550(	6.00)
551(	19.60)	, 553(	13.60)	, 554(	1.30)	, 555(	25.20)	, 556(	9.09)	, 557(	2.40)
560(	3.80)	, 561(	1.40)	, 566(	1.00)	, 567(	4.00)	, 569(	0.60)	, 571(	2.00)
575(	1.40)	, 583(	10.00)	, 592(	2.40)	, 597(	0.20)	, 599(	0.20)	, 600(	2.10)
602(	12.40)	, 603(	0.00)	, 604(	4.40)	, 605(	6.00)	, 606(	3.20)	, 609(	2.00)
614(	2.60)	, 620(	12.00)	, 621(	2.40)	, 622(	8.00)	, 623(	10.40)	, 630(	7.20)
631(	58.00)	, 632(	14.40)	, 634(	3.50)	, 635(	0.00)	, 643(	0.60)	, 645(	4.20)
652(	0.60)	, 656(	6.40)	, 660(	3.80)	, 661(	4.80)	, 667(	0.30)	, 678(	1.50)
679(	1.20)	, 690(	0.20)	, 692(	2.00)	, 696(	2.00)	, 697(	1.57)	, 698(	2.40)
735(	0.00)	, 736(	0.60)	, 737(	0.60)	, 744(	2.40)	, 745(	10.80)	, 746(	10.50)
747(	46.80)	, 749(	0.60)	, 752(	0.00)	, 753(	5.60)	, 754(	0.40)	, 758(	2.00)
761(	0.50)	, 762(	0.50)	, 769(	2.40)	, 770(	20.00)	, 771(	1.24)	, 783(	2.50)
784(	5.40)	, 786(	1.60)	, 789(	2.60)	, 791(	0.40)	, 792(	0.00)	, 795(	0.40)

797(	1.40)	803(	1.20)	818(	6.00)	827(	1.80)	828(	5.80)	835(	0.20)
836(	1.80)	839(	0.30)	841(	0.12)	842(	0.00)	854(	1.60)	871(	0.00)
876(	1.50)	881(	1.60)	883(	0.40)	884(	0.70)	885(	3.90)	888(	1.60)
893(	0.45)	894(	1.00)	902(	0.00)	907(	0.60)	908(	16.00)	910(	1.00)
911(	1.20)	914(	1.40)	915(	0.80)	917(	3.00)	919(	25.00)	921(	2.40)
922(	0.40)	923(	1.40)	926(	2.60)	930(	0.68)	931(	0.68)	932(	0.00)
934(	0.00)	935(	1.40)	937(	2.40)	938(	0.60)	939(	3.20)	945(	0.30)
949(	3.90)	957(	16.80)	959(	96.00)	962(	13.50)	963(	30.00)	964(	18.00)
964(	0.80)	966(	3.20)	966(	5.44)	970(	0.50)	972(	4.20)	973(	3.40)
974(	0.00)	993(	0.60)	996(	1.36)	943(	2.40)	950(	0.00)	951(	0.60)
992(	7.00)	993(	5.40)	994(	0.46)	995(	2.40)	996(	16.80)	998(	26.20)
998(	9.60)	976(	16.40)	977(	24.00)	978(	13.40)	979(	2.60)	982(	1.70)
983(	8.20)	984(	7.95)	986(	0.60)	988(	6.80)	989(	0.50)	990(	0.50)
991(	11.40)	992(	6.00)	996(	6.80)	1000(	1.00)	1001(	0.60)	1004(	4.80)
1007(	0.40)	1008(	0.60)	1014(	1.00)	1020(	0.00)	1025(	3.20)	1032(	0.80)
1047(	0.36)	1048(	4.00)	1067(	0.16)	1088(	13.60)	1089(	19.20)	1090(	89.20)
1091(	3.20)	1095(	12.60)	1096(	68.50)	1097(	31.00)	1098(	15.60)	1099(	49.60)
1100(	2.40)	1104(	4.20)	1105(	3.00)	1107(	8.80)	1108(	0.00)	1116(	0.30)
1121(	0.22)	1123(	0.50)	1124(	0.24)	1125(	0.30)	1126(	0.80)	1127(	0.04)
1128(	0.64)	1132(	0.20)	1133(	1.60)	1137(	7.50)	1138(	4.06)	1139(	0.30)
1140(	1.00)	1144(	1.60)	1146(	2.50)	1148(	5.20)	1149(	3.60)	1152(	2.00)
1153(	1.00)	1154(	0.90)	1155(	5.00)	1156(	13.00)	1157(	0.80)	1158(	0.90)
1159(	0.24)	1161(	9.80)	1162(	0.67)	1163(	6.60)	1174(	0.00)	1176(	3.60)
1177(	1.70)	1178(	3.00)	1179(	0.80)	1183(	0.32)	1186(	6.90)	1187(	2.40)
1188(	6.00)	1189(	30.50)	1190(	1.50)	1192(	0.00)	1195(	0.30)	1198(	1.40)
1205(	0.04)										
974(	0.00)	939(	0.00)	977(	4.40)	984(	0.97)	986(	3.00)	989(	0.40)
996(	0.00)	997(	0.10)	1001(	0.36)	1004(	1.40)	1007(	2.80)	1008(	1.48)
1009(	1.50)	1014(	1.00)	1017(	0.00)						
175(	0.00)	548(	3.20)	558(	3.60)	559(	1.00)	562(	0.00)	566(	0.00)
861(	19.20)	1003(	0.60)								
2(	0.00)	4(	0.90)	15(	1.20)	28(	1.60)	38(	3.36)	43(	0.00)
44(	0.00)	46(	3.20)	61(	0.60)	63(	0.00)	67(	0.20)	68(	1.60)
70(	0.40)	85(	0.00)	87(	0.00)	90(	0.00)	93(	0.00)	94(	1.20)
100(	3.57)	124(	0.00)	127(	2.00)	130(	1.80)	131(	4.80)	132(	0.00)
133(	0.00)	138(	2.40)	177(	1.60)	178(	1.80)	182(	14.80)	186(	0.00)
206(	0.64)	210(	0.00)	220(	0.40)	221(	0.10)	228(	0.00)	234(	3.00)
236(	0.10)	239(	0.00)	240(	0.00)	241(	0.20)	242(	0.00)	243(	0.00)
244(	0.00)	246(	2.50)	247(	3.20)	250(	3.20)	251(	0.60)	261(	0.36)
262(	0.00)	287(	0.10)	289(	0.80)	291(	0.00)	292(	1.20)	293(	0.00)
294(	4.12)	295(	0.40)	542(	4.80)	543(	6.00)	547(	0.00)	560(	0.80)
848(	11.20)	849(	4.32)	850(	4.50)	853(	19.50)	915(	0.90)	945(	0.00)
946(	5.10)	947(	4.80)	961(	22.32)	965(	1.40)	975(	0.80)	1053(	0.00)
1069(	1.28)	1108(	0.00)	1134(	0.18)	1163(	0.00)	1167(	5.00)	1168(	0.30)
1169(	1.60)	1170(	0.40)	1179(	1.20)	1182(	6.26)				
1117(	1.20)	1133(	0.10)	161(	3.60)	888(	0.40)	884(	0.10)	883(	1.00)
778(	0.00)	1196(	0.40)	1202(	1.40)	1205(	1.20)				
980(	0.00)										
463(	2.86)	467(	20.00)	472(	2.40)	473(	6.00)	474(	4.00)		
890(	6.00)	1099(	1.00)								
1104(	0.60)	134(	2.36)	140(	0.40)	468(	0.00)	736(	0.00)	737(	2.00)
745(	4.60)	749(	3.40)	771(	2.50)	783(	1.70)	803(	4.00)	824(	0.80)
1082(	3.90)										
1088(	0.00)										
739(	0.00)	1121(	0.16)								
959(	0.84)										
1102(	0.36)										

sepioleuthis sepioidea

LYCOTEUTHIDAE

OCTOPUS

OCTOPUS SP

OCTOPUS vulgare

OCTOPUS zonatus

OCTOPUS defilippi

OCTOPUS burryi

OCTOPUS Joubini

<i>Illex</i> sp	6(11.85) , 7(7.10) , 8(2.60) , 9(3.60) , 10(2.60) , 11(3.00) ,
	12(14.40) , 13(2.80) , 17(5.40) , 18(1.64) , 107(0.00) , 222(0.00) ,
	1042(2.70)
<i>Illex coindetti</i>	175(0.60) , 186(0.60) , 188(2.40) , 189(1.80) , 190(6.10) , 191(0.00) ,
	191(19.00) , 192(112.80) , 217(6.40) , 218(3.00) , 219(0.08) , 524(3.60) ,
	525(3.16) , 526(8.85) , 577(4.00) , 578(3.20) , 685(1.40) , 702(7.00) ,
	742(1.68) , 743(0.60) , 780(18.00) , 789(0.00) , 790(23.00) , 796(9.40) ,
	808(0.35) , 809(3.90) , 810(5.00) , 822(40.80) , 823(1.20) , 826(6.00) ,
	878(1.35) , 925(0.90) , 1043(5.20) , 1044(0.70) , 1101(0.20) , 1102(2.10) ,
	1119(3.90) , 1120(1.00) , 1129(6.45) , 1130(20.00) , 1135(3.20) , 1136(1.80) ,
	1142(3.00) , 1143(4.50) , 1144(0.90) , 1151(1.85) , 1194(3.10)
<i>Illex illecebrosus</i>	114(3.20) , 115(0.30) , 119(3.00) , 120(7.40) , 139(3.00) , 139(0.20) ,
	145(0.40) , 158(0.60) , 159(0.18) , 164(1.60) , 185(25.15) , 199(0.60) ,
	200(8.80) , 390(7.06) , 392(0.80) , 393(16.94) , 394(1.60) , 395(0.30) ,
	396(8.10) , 398(1.20) , 416(0.20) , 417(2.80) , 1040(2.00) , 1041(4.00) ,
	1092(2.42) , 1094(1.10) , 1095(0.18) , 1195(2.20)
<i>Ornithoteuthis antillarum</i>	145(0.00) , 146(0.00) , 164(0.40) , 175(0.00) , 217(0.00) , 218(0.00) ,
	219(0.00) , 295(0.00) , 391(0.20) , 397(3.00) , 398(0.20) , 417(0.20) ,
	418(2.62) , 420(0.60) , 421(0.33) , 457(0.40) , 616(1.20) , 684(1.20) ,
	685(0.60) , 742(0.24) , 743(3.90) , 796(0.30) , 811(3.00) , 869(0.00) ,
	878(0.23)
<i>Ummastrephes pteropus</i>	394(0.60) , 1150(0.17)
<i>Onychoteuthis banksi</i>	115(0.20)
OPHISTHOEUTRIDAE	743(0.24)
<i>Octopoteuthis megaloptera</i>	1041(2.50)
SERIULIDAE	219(0.00) , 260(0.00) , 391(0.20) , 392(0.40) , 397(0.90) , 568(0.40) ,
	684(0.00)
<i>Semirossia</i> sp	7(0.00) , 198(0.00)
<i>Semirossia equalis</i>	1134(0.00) , 1136(0.12)
<i>Rossia</i> sp	115(0.00) , 139(0.00) , 145(0.10) , 146(3.75) , 164(0.40) , 391(0.10) ,
	400(0.00) , 568(0.80) , 702(0.00) , 780(0.00) , 980(0.00) , 1142(1.20) ,
	1143(0.21) , 1193(0.18)
<i>Rossia antillensis</i>	107(0.00) , 1043(0.30) , 1092(2.45) , 1093(0.47) , 1102(0.50) , 1130(3.50) ,
	1151(0.15)
<i>Heteroteuthis atlantis</i>	743(0.00)
Small squids unident.	139(0.00) , 140(5.00) , 233(11.20) , 263(1.80) , 269(7.20) , 280(2.40) ,
	1019(12.74)
STERNOPTYCHIDAE	219(0.40) , 1103(0.56)
<i>Argyroleleus</i> sp	218(0.00) , 397(0.00) , 742(0.24) , 822(0.00) , 1040(0.20) , 1045(0.02) ,
	1143(1.20) , 1151(0.12) , 1193(1.80)
<i>Argyroleleus aculeatus</i>	457(0.00) , 810(0.05) , 811(0.75) , 823(0.06) , 869(0.00) , 879(1.65) ,
	1194(3.50)
<i>Sternoptyx</i> sp	115(0.40) , 702(0.04) , 980(0.25)
<i>Sternoptyx pseudobscura</i>	391(0.00) , 392(0.00) , 568(0.40) , 1011(0.00)
STROMATEIDAE	
<i>Peprius paru</i>	1(24.60) , 2(2.00) , 12(13.80) , 15(5.40) , 16(2.00) , 17(2.40) ,
	18(3.43) , 21(2.40) , 22(0.20) , 38(21.60) , 43(12.00) , 44(2.40) ,
	45(1.00) , 46(16.00) , 47(22.40) , 51(6.13) , 60(3.50) , 61(2.70) ,
	62(12.60) , 63(0.00) , 69(1.10) , 70(2.40) , 75(4.80) , 77(0.40) ,
	87(1.30) , 92(2.00) , 95(7.20) , 101(68.57) , 118(5.40) , 125(5.00) ,
	128(0.70) , 132(4.07) , 142(10.00) , 152(1.00) , 167(22.00) , 168(5.60) ,
	174(0.80) , 209(0.00) , 210(0.00) , 221(2.90) , 229(0.00) , 240(9.94) ,
	299(2.73) , 303(1.20) , 304(66.00) , 305(0.10) , 307(0.00) , 308(160.00) ,
	308(4.80) , 310(20.00) , 311(13.60) , 314(0.72) , 317(2.40) , 322(31.20) ,
	326(3.80) , 328(6.00) , 338(2.40) , 339(0.80) , 343(43.20) , 356(14.00) ,
	357(20.00) , 358(3.23) , 359(0.00) , 360(0.00) , 361(1.20) , 365(0.40) ,

Peprilus paru (cont.)

369(	18.40)	, 370(	7.20)	, 371(	1.60)	, 372(	0.80)	, 373(	8.60)	, 375(	24.00)	,
376(	0.60)	, 377(	0.00)	, 378(	22.40)	, 379(	1.00)	, 380(	39.80)	, 384(	7.00)	,
386(	0.00)	, 387(	70.00)	, 388(	5.60)	, 389(	1.80)	, 400(	0.90)	, 401(	0.80)	,
402(	52.00)	, 404(	43.40)	, 404(	0.00)	, 405(	3.80)	, 406(	8.50)	, 407(	1.00)	,
409(	26.36)	, 410(	12.40)	, 415(	32.00)	, 428(	9.12)	, 429(	9.60)	, 430(	8.00)	,
431(	8.80)	, 432(	1.60)	, 433(	1.20)	, 434(	30.00)	, 437(	0.00)	, 436(	0.00)	,
439(	4.80)	, 440(	0.00)	, 441(	2.50)	, 445(	20.00)	, 447(	1.20)	, 448(	3.00)	,
451(	0.40)	, 454(	4.80)	, 455(	105.60)	, 464(	23.50)	, 486(	192.00)	, 522(	12.72)	,
527(	11.20)	, 538(	2.80)	, 539(	3.00)	, 540(	18.20)	, 541(	34.41)	, 542(	10.80)	,
543(	9.00)	, 544(	0.00)	, 545(	3.00)	, 551(	77.00)	, 552(	28.80)	, 553(	215.00)	,
556(	3.64)	, 557(	3.60)	, 559(	0.80)	, 561(	0.80)	, 566(	4.60)	, 571(	5.60)	,
572(	3.60)	, 624(	48.00)	, 626(	0.00)	, 633(	3.20)	, 635(	5.60)	, 637(	0.60)	,
638(	5.20)	, 639(	2.10)	, 640(	0.80)	, 641(	4.00)	, 664(	2.00)	, 666(	0.00)	,
667(	3.00)	, 668(	1.60)	, 669(	2.40)	, 671(	5.57)	, 673(	48.00)	, 675(	37.80)	,
679(	6.00)	, 687(	0.40)	, 690(	0.30)	, 691(	0.00)	, 692(	0.20)	, 694(	2.50)	,
700(	1.60)	, 701(	8.20)	, 704(	7.00)	, 707(	17.60)	, 709(	5.40)	, 710(	12.00)	,
711(	22.60)	, 713(	15.00)	, 715(	30.00)	, 716(	17.50)	, 719(	2.50)	, 723(	4.00)	,
724(	6.20)	, 725(	1.60)	, 726(	8.80)	, 727(	1.40)	, 728(	4.80)	, 731(	1.20)	,
732(	2.60)	, 734(	1.20)	, 752(	14.40)	, 753(	7.00)	, 758(	2.50)	, 846(	11.20)	,
847(	1.44)	, 848(	0.40)	, 850(	1.00)	, 851(	11.60)	, 854(	0.00)	, 854(	1.70)	,
859(	3.60)	, 861(	2.40)	, 915(	0.10)	, 916(	0.40)	, 922(	6.00)	, 923(	19.20)	,
929(	8.80)	, 931(	27.20)	, 941(	16.80)	, 943(	0.34)	, 944(	56.80)	, 946(	20.40)	,
947(	14.00)	, 948(	20.80)	, 961(	39.60)	, 965(	4.50)	, 966(	0.20)	, 968(	3.50)	,
969(	4.00)	, 971(	3.00)	, 974(	0.24)	, 975(	2.40)	, 975(	0.56)	, 987(	7.50)	,
992(	2.00)	, 993(	16.50)	, 994(	15.60)	, 995(	9.60)	, 997(	0.40)	, 998(	1.20)	,
999(	1.20)	, 1001(	5.20)	, 1002(	23.80)	, 1003(	28.80)	, 1004(	4.00)	, 1005(	132.50)	,
1006(	7.20)	, 1015(	51.00)	, 1017(	3.40)	, 1018(	8.00)	, 1019(	5.00)	, 1020(	5.50)	,
1022(	1.20)	, 1025(	51.60)	, 1027(	4.00)	, 1028(	2.08)	, 1029(	19.00)	, 1030(	91.00)	,
1031(	4.00)	, 1034(	24.00)	, 1035(	4.24)	, 1037(	4.00)	, 1038(	11.40)	, 1039(	8.00)	,
1051(	11.40)	, 1052(	4.90)	, 1050(	15.00)	, 1054(	3.60)	, 1055(	10.00)	, 1056(	7.00)	,
1057(	22.30)	, 1059(	8.20)	, 1060(	1.60)	, 1064(	1.66)	, 1065(	21.60)	, 1067(	5.60)	,
1068(	7.20)	, 1070(	1.60)	, 1071(	2.00)	, 1083(	4.00)	, 1084(	2.00)	, 1091(	11.20)	,
1140(	1.00)	, 1161(	17.80)	, 1162(	7.22)	, 1171(	0.60)	, 1172(	0.14)	, 1176(	5.40)	,
1182(	0.10)	, 1183(	0.20)	, 1187(	5.40)	, 1188(	21.00)	, 2(	1.30)	, 3(	3.80)	,
4(	1.40)	, 13(	20.00)	, 20(	3.00)	, 25(	9.40)	, 39(	36.00)	, 44(	0.00)	,
46(	12.80)	, 59(	47.60)	, 68(	0.60)	, 71(	5.40)	, 74(	3.00)	, 76(	0.30)	,
78(	8.00)	, 79(	0.00)	, 85(	2.20)	, 86(	0.00)	, 87(	2.60)	, 87(	0.00)	,
88(	0.40)	, 90(	2.40)	, 92(	0.60)	, 96(	34.80)	, 98(	5.60)	, 102(	4.00)	,
103(	45.40)	, 104(	10.60)	, 112(	2.40)	, 113(	1.00)	, 130(	0.40)	, 223(	0.00)	,
231(	0.00)	, 232(	0.40)	, 233(	0.00)	, 237(	2.80)	, 238(	0.00)	, 239(	1.00)	,
241(	1.20)	, 242(	17.00)	, 243(	0.00)	, 244(	2.16)	, 250(	1.00)	, 251(	1.20)	,
252(	0.04)	, 253(	44.40)	, 254(	17.20)	, 255(	12.00)	, 260(	4.00)	, 261(	2.70)	,
261(	0.00)	, 262(	0.00)	, 263(	20.00)	, 288(	0.20)	, 289(	0.40)	, 291(	0.40)	,
294(	1.40)	, 297(	0.20)									

SYNGNATHIDAE

Hippocampus sp

835(0.00)

SYNGNATHIDAE

207(13.20), 233(7.20), 260(27.20), 816(2.85), 1080(0.26), 1177(3.10),

Saurida sp

52(7.80), 59(0.14), 64(2.40), 81(1.60), 89(0.00), 91(0.00),
 106(0.00), 110(0.40), 122(0.00), 125(0.00), 127(1.00), 138(129.60),
 143(0.50), 144(1.20), 144(0.00), 165(0.10), 166(6.00), 167(0.00),
 179(0.00), 181(0.00), 183(0.00), 184(3.00), 186(15.00), 198(3.00),
 205(1.50), 206(1.60), 207(1.20), 208(0.00), 216(0.56), 217(1.60),
 220(0.00), 221(0.20), 227(1.20), 228(1.00), 232(2.00), 236(0.00),
 256(6.00), 258(25.60), 261(0.48), 266(3.20), 267(7.00), 268(2.80),

Saurida sp (cont.)

269(	7.20)	, 274(	4.80)	, 279(	0.00)	, 280(	0.00)	, 321(	2.20)	, 330(	5.00)	,
331(	0.40)	, 345(	0.00)	, 352(	2.00)	, 355(	1.20)	, 360(	0.00)	, 361(	2.80)	,
367(	9.60)	, 368(	30.00)	, 374(	0.40)	, 384(	13.60)	, 385(	10.40)	, 399(	25.00)	,
400(	33.60)	, 401(	2.40)	, 427(	1.00)	, 450(	0.00)	, 698(	4.00)	, 816(	0.00)	,
923(	1.00)	, 930(	0.75)	, 931(	6.00)	, 932(	2.00)	, 949(	14.80)	, 950(	0.12)	,
954(	2.77)	, 955(	3.40)	, 955(	0.10)	, 958(	0.00)	, 960(	4.80)	, 1001(	0.52)	,
1004(	0.40)	, 1007(	0.40)	, 1009(	0.00)	, 1022(	2.10)	, 1072(	0.08)	, 1088(	0.64)	,
1091(	12.00)	, 1128(	0.96)	, 1136(	0.07)	, 1139(	2.00)	, 1140(	1.00)	, 1141(	10.40)	,
1148(	11.56)	, 1149(	0.06)	, 1152(	5.60)	, 1155(	6.50)	, 1161(	0.20)	, 1162(	0.00)	,
1178(	1.08)	, 1189(	1.50)	, 1208(	0.00)							,

Saurida brasiliensis

10(	60.20)	, 17(	1.20)	, 23(	39.60)	, 37(	18.00)	, 90(	4.00)	, 113(	1.10)	,
173(	8.80)	, 430(	32.80)	, 431(	0.20)	, 492(	1.50)	, 989(	0.28)	, 997(	0.40)	,
1027(	15.00)	, 1033(	3.10)	, 1051(	3.36)	, 1067(	0.14)	, 1082(	0.18)	, 1106(	16.20)	,
1113(	67.50)	, 1115(	6.20)									,

Saurida normani

145(	1.40)	, 147(	0.20)	, 175(	2.10)	, 188(	1.80)	, 194(	0.60)	, 226(	0.00)	,
492(	1.20)	, 516(	4.20)	, 518(	0.20)	, 519(	7.00)	, 549(	0.50)	, 577(	7.20)	,
593(	2.60)	, 601(	8.00)	, 611(	2.20)	, 619(	15.20)	, 627(	4.00)	, 635(	2.80)	,
678(	2.40)	, 679(	6.00)	, 686(	18.60)	, 687(	0.20)	, 696(	2.00)	, 711(	3.00)	,
713(	16.00)	, 723(	0.40)	, 737(	19.80)	, 744(	0.04)	, 753(	0.40)	, 759(	0.00)	,
760(	0.50)	, 763(	0.17)	, 772(	0.00)	, 777(	3.90)	, 780(	0.00)	, 784(	1.20)	,
785(	2.00)	, 799(	22.40)	, 805(	0.20)	, 814(	17.40)	, 815(	6.00)	, 817(	0.90)	,
818(	0.30)	, 824(	0.60)	, 826(	7.20)	, 828(	0.40)	, 831(	8.10)	, 834(	4.00)	,
835(	0.20)	, 838(	5.40)	, 837(	1.20)	, 839(	6.00)	, 841(	0.20)	, 843(	0.00)	,
845(	6.80)	, 866(	0.30)	, 871(	0.00)	, 873(	3.90)	, 876(	0.80)	, 878(	1.58)	,
886(	0.90)	, 894(	3.00)	, 895(	2.60)	, 896(	6.00)	, 899(	6.00)	, 905(	1.30)	,
911(	0.60)	, 914(	0.20)	, 951(	0.60)	, 978(	0.40)	, 979(	7.80)	, 981(	0.40)	,
1000(	10.00)	, 1004(	0.04)	, 1008(	4.00)	, 1009(	1.70)	, 1010(	16.00)	, 1014(	4.20)	,
1051(	7.20)	, 1052(	2.80)	, 1050(	2.70)	, 1067(	1.00)	, 1079(	0.40)	, 1081(	8.00)	,
1082(	0.72)	, 1134(	7.50)	, 1135(	2.00)	, 1137(	1.00)	, 1138(	3.16)	, 1145(	2.47)	,
1156(	0.02)	, 1158(	4.40)	, 1159(	0.00)	, 1174(	5.00)	, 1186(	1.40)	, 1190(	0.60)	,
1195(11.40)	, 1208(16.00)	, 1209(2.80)	, 1210(3.60)					,

Saurida caribbaea

231(0.00)	, 510(2.40)	, 1096(1.00)	, 1107(2.80)	, 1175(1.92)			,
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Saurida sp Juveniles

28(0.00)	, 105(0.00)	, 123(0.00)	, 128(0.00)	, 137(54.00)	, 141(0.00)	,
151(0.00)											,

Synodus sp

5(	0.60)	, 13(	0.20)	, 64(	4.60)	, 89(	0.30)	, 110(	0.00)	, 144(	1.80)	,
147(	4.00)	, 184(	0.60)	, 205(	0.74)	, 208(	0.00)	, 216(	11.20)	, 226(	0.24)	,
227(	7.20)	, 232(	8.80)	, 259(	1.00)	, 266(	2.40)	, 295(	0.60)	, 299(	0.00)	,
315(	0.80)	, 346(	0.60)	, 377(	0.40)	, 379(	0.20)	, 380(	0.20)	, 382(	8.40)	,
383(	6.40)	, 393(	1.06)	, 456(	1.60)	, 506(	1.00)	, 712(	20.00)	, 886(	0.48)	,
887(	0.10)	, 888(	0.20)	, 890(	0.50)	, 919(	2.16)	, 920(	13.00)	, 926(	5.20)	,
932(	2.40)	, 935(	0.80)	, 936(	1.64)	, 936(	0.55)	, 937(	2.40)	, 938(	6.00)	,
939(	1.40)	, 950(	1.20)	, 951(	3.60)	, 957(	0.00)	, 963(	0.18)	, 966(	1.30)	,
981(	1.20)	, 986(	0.60)	, 994(	1.20)	, 1010(	0.60)	, 1025(	0.20)	, 1031(	6.00)	,
1080(	0.08)	, 1088(	0.12)	, 1097(	3.70)	, 1124(	0.24)	, 1126(	0.04)	, 1127(	0.10)	,
1128(	0.00)	, 1132(	1.00)	, 1132(	6.40)	, 1133(	1.00)	, 1139(	3.00)	, 1146(	0.30)	,
1148(	3.16)	, 1149(	0.90)	, 1154(	0.75)	, 1155(	0.24)	, 1156(	0.80)	, 1159(	1.20)	,
1160(	0.60)	, 1163(	0.06)	, 1178(	3.78)	, 1179(	2.40)	, 1183(	1.28)	, 1186(	0.70)	,
1189(	1.50)	, 1190(	0.30)	, 1191(	5.76)	, 1205(	0.06)	, 1208(	0.00)	, 1209(	0.00)	,

Synodus saurus

5(0.80)	, 9(0.40)	, 12(1.40)	, 17(0.80)	, 22(0.40)	, 88(1.60)	,
412(8.40)											,

Synodus synodus

21(0.60)	, 36(0.20)	, 81(0.50)	, 295(1.80)					,
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Synodus poeyi

103(1.80)	, 231(0.00)	, 394(7.80)	, 403(1.20)	, 408(105.00)	, 409(15.82)	,
410(20.20)	, 434(8.20)	, 439(0.80)	, 440(2.00)	, 441(18.00)	, 442(1.60)	,
443(	1.60)	, 444(	4.80)	, 445(	1.50)	, 447(	1.20)	, 451(	8.00)	, 452(	2.40)	,
453(	0.33)	, 456(	4.80)	, 458(	1.20)	, 460(	7.00)	, 461(	18.60)	, 462(	0.10)	,
463(	2.14)	, 466(	120.00)	, 467(	56.00)	, 468(	4.80)	, 469(	0.00)	, 471(	25.80)	,

Synodus poeyi (cont.)

472(	6.00)	473(	10.80)	474(	12.00)	476(	2.00)	477(	1.20)	479(	11.00)
480(	28.00)	481(	9.60)	482(	13.65)	483(	3.20)	484(	44.20)	486(	4.80)
490(	12.80)	491(	53.20)	492(	0.90)	494(	9.60)	495(	4.20)	496(	10.00)
500(	0.48)	507(	0.00)	508(	1.20)	512(	0.00)	513(	0.00)	515(	0.00)
525(	1.26)	526(	2.25)	530(	0.00)	535(	0.20)	536(	2.70)	541(	2.29)
547(	13.03)	548(	6.40)	553(	17.40)	555(	5.60)	558(	2.40)	560(	1.20)
561(	3.20)	562(	10.00)	563(	6.00)	564(	26.18)	565(	0.80)	567(	6.00)
573(	21.20)	574(	0.00)	591(	1.30)	592(	0.00)	599(	1.00)	600(	7.00)
602(	0.00)	603(	0.00)	604(	0.10)	605(	1.00)	614(	3.00)	617(	7.20)
618(	82.29)	620(	0.20)	632(	1.80)	642(	0.69)	643(	6.60)	645(	0.40)
647(	6.40)	648(	0.30)	650(	3.60)	651(	1.80)	658(	2.10)	661(	0.40)
662(	2.80)	664(	0.80)	669(	2.80)	670(	0.60)	672(	18.00)	673(	6.00)
677(	16.80)	681(	0.00)	705(	2.00)	706(	2.80)	713(	20.00)	714(	1.50)
725(	0.80)	749(	0.10)	762(	0.20)	764(	0.20)	769(	0.00)	770(	0.00)
772(	1.20)	778(	1.80)	779(	0.20)	782(	0.00)	783(	0.40)	784(	0.60)
785(	0.00)	786(	0.60)	801(	0.40)	807(	0.20)	816(	0.00)	817(	0.30)
824(	0.40)	830(	0.00)	831(	1.16)	833(	1.20)	834(	3.20)	835(	0.10)
840(	15.00)	842(	27.00)	843(	37.00)	845(	6.80)	846(	1.20)	848(	0.20)
849(	0.60)	850(	1.50)	854(	10.80)	856(	0.10)	858(	3.20)	858(	26.40)
864(	0.80)	866(	0.00)	867(	2.86)	868(	0.40)	876(	0.00)	885(	0.00)
894(	1.60)	897(	0.10)	905(	2.10)	906(	0.60)	908(	0.00)	914(	0.10)
917(	0.00)	959(	0.60)	976(	0.20)	977(	0.08)	990(	2.10)	1000(	1.00)
1008(	0.44)	1014(	1.80)	1091(	1.20)	1095(	2.64)	1096(	6.00)	1099(	28.80)
1100(	0.24)	1104(	8.70)	1105(	4.50)	1106(	48.60)	1107(	7.60)	1152(	2.40)
1161(	0.30)	1162(	0.22)	1192(	8.40)						

Synodus foetens

122(	40.60)	122(	0.00)	123(	42.72)	125(	2.20)	127(	1.00)	141(	4.20)
142(	1.50)	150(	7.80)	151(	8.76)	152(	10.80)	154(	6.00)	205(	3.60)
216(	1.74)	243(	0.60)	250(	1.80)	252(	0.80)	253(	6.40)	254(	2.20)
255(	1.60)	256(	13.20)	256(	58.80)	258(	51.20)	260(	20.80)	266(	3.20)
267(	5.60)	277(	1.20)	279(	0.00)	289(	1.40)	291(	0.06)	293(	0.20)
296(	2.40)	416(	13.00)	427(	3.60)	429(	4.00)	464(	4.50)	468(	4.50)
470(	1.20)	474(	5.60)	485(	159.20)	537(	3.90)	545(	1.60)	546(	7.20)
551(	2.10)	556(	4.00)	557(	5.60)	560(	0.60)	561(	5.20)	569(	0.10)
574(	0.44)	575(	0.00)	587(	0.20)	589(	4.80)	592(	0.60)	593(	0.20)
595(	0.80)	596(	2.00)	597(	0.30)	600(	5.60)	601(	0.00)	602(	0.00)
603(	1.20)	628(	0.90)	634(	5.50)	644(	5.40)	652(	7.00)	653(	1.00)
656(	1.00)	660(	0.20)	667(	1.00)	692(	1.00)	698(	1.60)	707(	6.40)
708(	3.20)	711(	7.00)	721(	4.20)	722(	0.40)	724(	6.80)	729(	4.00)
732(	0.20)	738(	0.60)	744(	0.80)	749(	3.20)	750(	8.00)	753(	0.80)
754(	0.20)	761(	0.30)	769(	7.20)	770(	48.00)	783(	4.00)	784(	11.40)
786(	4.80)	804(	0.00)	805(	0.00)	825(	0.48)	837(	2.40)	840(	3.90)
842(	14.10)	847(	0.24)	854(	2.40)	856(	3.30)	861(	0.00)	862(	4.40)
866(	0.00)	867(	2.70)	877(	1.60)	881(	1.20)	884(	0.30)	885(	0.30)
902(	0.48)	906(	5.40)	910(	0.40)	914(	0.80)	915(	0.30)	937(	0.90)
943(	0.50)	952(	2.10)	955(	0.20)	959(	13.20)	964(	1.00)	972(	0.40)
973(	1.40)	977(	0.80)	982(	0.20)	983(	0.20)	984(	0.77)	988(	0.80)
989(	4.20)	990(	2.80)	992(	0.40)	997(	2.40)	998(	1.26)	1000(	2.40)
1007(	0.40)	1008(	1.20)	1009(	1.80)	1014(	1.40)	1017(	0.40)	1021(	0.40)
1022(	0.90)	1031(	2.00)	1052(	6.60)	1050(	2.70)	1058(	18.60)	1059(	0.50)
1067(	5.20)	1071(	4.60)	1072(	0.16)	1073(	2.40)	1082(	12.60)	1084(	5.00)
1088(	0.60)	1091(	6.40)	1096(	6.00)	1106(	16.20)	1107(	38.00)	1133(	0.60)
1140(	1.33)	1146(	0.70)	1149(	5.40)	1153(	0.60)	1154(	1.20)	1158(	4.00)
1161(	2.60)	1162(	3.44)	1163(	0.20)	1165(	2.60)	1167(	4.00)	1169(	0.40)
1170(	0.32)	1171(	0.90)	1172(	0.74)	1174(	22.78)	1176(	1.92)	1183(	6.90)
1185(	5.00)	1191(	2.80)	1192(	3.50)	1201(	1.60)	1205(	0.06)	1206(	0.20)
1207(	2.40)										
164(	0.80)	464(	1.00)	477(	1.32)	486(	3.20)	776(	0.30)	777(	1.00)

Synodus intermedius

Synodus intermedius (cont.)

791(	9.80)	, 792(	5.10)	, 794(	12.00)	, 795(	15.40)	, 797(	3.50)	, 801(	28.80)	,
803(	10.40)	, 807(	0.40)	, 890(	2.00)	, 894(	0.40)	, 926(	0.00)	, 950(	0.00)	,
951(	2.40)	, 1080(	0.78)	, 1090(	3.68)	, 1100(	2.20)	, 1114(	12.21)	, 1116(	14.90)	,
1117(	1.60)	, 1118(	9.60)	, 1121(	3.79)	, 1123(	6.40)	, 1124(	0.24)	, 1125(	7.90)	,
1126(	0.40)	, 1127(	0.06)	, 1137(	1.40)	, 1145(	0.71)	, 1155(	2.74)	, 1159(	0.72)	,
1160(	0.18)	, 1200(	0.12)	, 1201(	1.34)	, 1202(	6.30)	, 1204(	1.00)	, 1205(	0.04)	,

Trachinocephalus myops

36(	0.20)	, 187(	0.20)	, 452(	0.30)	, 482(	9.45)	, 506(	0.20)	, 619(	1.20)	,
621(	0.60)	, 622(	0.20)	, 628(	6.00)	, 644(	0.40)	, 649(	0.60)	, 651(	1.80)	,
660(	0.40)	, 662(	1.20)	, 772(	1.20)	, 789(	0.60)	, 791(	0.60)	, 794(	0.80)	,
795(	2.60)	, 801(	1.40)	, 803(	0.80)	, 807(	0.60)	, 830(	12.00)	, 881(	0.80)	,
883(	0.30)	, 885(	0.60)	, 935(	0.08)	, 956(	0.04)	, 959(	16.80)	, 1079(	0.40)	,
1089(	1.10)	, 1097(	0.20)	, 1116(	2.96)	, 1123(	0.40)	, 1125(	0.90)	, 1127(	0.20)	,
1131(	1.20)	, 1157(	1.40)	, 1184(	0.16)	, 1195(	2.52)	, 1196(	0.12)	, 1202(	0.70)	,
1205(	2.00)	, 1207(	0.16)									

TETRAODONTIDAE

Canthigaster rostrata

44(	0.00)	, 70(	0.00)	, 89(	0.00)	, 95(	0.00)					
1117(0.02)	, 177(0.00)	, 500(0.00)	, 1121(0.16)	, 1126(0.10)	, 1198(0.00)	,

Colomesus sp

61(1.80)	, 96(1.20)	, 368(0.00)	, 410(1.50)	, 948(44.20)			
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Colomesus psittacus

699(4.60)	, 1006(1.60)									
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Lagocephalus laevigatus

62(0.00)	, 104(2.80)	, 124(0.00)	, 135(19.20)	, 149(3.30)	, 151(7.12)	,
152(0.40)	, 165(1.00)	, 167(0.00)	, 170(1.40)	, 187(0.00)	, 207(3.00)	,
216(	3.78)	, 228(	0.00)	, 234(	1.40)	, 247(	0.04)	, 253(	0.00)	, 254(	1.60)	,
255(	0.00)	, 326(	0.30)	, 352(	0.30)	, 380(	0.00)	, 382(	0.60)	, 387(	2.80)	,
399(	0.00)	, 401(	0.00)	, 427(	1.00)	, 429(	2.00)	, 456(	1.60)	, 463(	0.00)	,
466(	0.00)	, 471(	12.90)	, 477(	1.32)	, 479(	11.00)	, 481(	2.40)	, 483(	1.60)	,
485(	78.00)	, 492(	0.30)	, 513(	2.00)	, 528(	3.60)	, 531(	1.60)	, 548(	8.00)	,
556(	0.73)	, 560(	0.70)	, 561(	0.80)	, 562(	2.50)	, 563(	3.00)	, 572(	5.40)	,
624(	0.00)	, 627(	2.00)	, 665(	6.60)	, 673(	0.30)	, 721(	0.60)	, 763(	0.67)	,
770(	16.00)	, 818(	0.60)	, 834(	1.00)	, 839(	1.00)	, 863(	7.00)	, 885(	0.70)	,
886(	0.70)	, 938(	0.80)	, 956(	3.20)	, 988(	2.20)	, 997(	0.40)	, 1020(	4.00)	,
1035(	3.00)	, 1057(	4.40)	, 1060(	1.50)	, 1090(	2.20)	, 1104(	5.70)	, 1105(	3.80)	,
1106(	20.90)	, 1107(	13.40)	, 1107(	0.20)	, 1133(	4.40)	, 1139(	22.00)	, 1144(	1.50)	,
1149(	4.20)	, 1152(	2.40)	, 1156(	1.80)	, 1187(	5.40)	, 1188(	0.60)			

Sphaeroides sp

161(	0.20)	, 267(	0.70)	, 321(	0.00)	, 356(	1.40)	, 557(	0.00)	, 567(	1.50)	,
601(	0.00)	, 619(	0.40)	, 627(	0.20)	, 634(	1.50)	, 644(	0.10)	, 653(	0.00)	,
662(	0.20)	, 724(	0.00)	, 785(	0.40)	, 792(	1.80)	, 794(	6.00)	, 814(	0.00)	,
881(4.00)	, 883(0.20)	, 950(0.36)	, 990(1.40)	, 1088(0.00)			

Sphaeroides spengleri

1080(0.08)	, 1124(0.00)	, 1157(0.06)	, 1205(1.02)	, 1207(0.12)			
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Sphaeroides testudineus

38(0.60)	, 68(0.20)	, 87(1.00)	, 464(0.00)	, 558(0.60)	, 795(0.00)	,
797(0.00)	, 803(0.20)	, 807(0.00)	, 842(0.06)	, 888(0.80)	, 939(0.00)	,
951(	0.60)	, 981(	0.80)	, 1079(	4.00)							

Sphaeroides dorsalis

140(	0.50)	, 147(	0.20)	, 537(	0.00)	, 619(	0.40)	, 795(	0.00)	, 803(	0.80)	,
807(	0.00)	, 978(	0.40)	, 1090(	0.00)	, 1095(	0.84)	, 1098(	0.20)	, 1104(	1.20)	,
1114(	1.76)	, 1116(	5.90)	, 1121(	0.16)	, 1123(	0.20)	, 1124(	0.00)	, 1125(	1.20)	,
1134(	0.60)	, 1152(	0.00)	, 1153(	0.00)	, 1154(	0.00)	, 1155(	1.74)	, 1158(	0.08)	,
1159(	0.36)	, 1160(	0.24)	, 1167(	4.00)	, 1169(	0.20)	, 1171(	1.44)	, 1185(	0.30)	,
1192(0.20)	, 1196(0.10)	, 1201(0.24)	, 1205(0.04)	, 1206(0.02)	, 1207(1.20)	,

Sphaeroides maculatus

186(0.00)	, 198(0.00)									
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Sphaeroides nefelus

198(0.00)	, 951(0.30)									
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Sphaeroides pacngaster

510(0.40)	, 777(1.40)	, 1135(2.00)	, 1136(0.07)					
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TRACHIPTERIDAE

224(0.40)											
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TRIGLIDAE

17(0.60)	, 21(0.00)	, 22(0.40)	, 61(0.40)	, 89(0.00)	, 90(0.80)	,
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Bellator sp	1079(0.00)	,1082(1.80)	,1090(0.00)	,1155(0.06)	,1159(0.48)		
Bellator ribeiroi	795(0.40)	,1132(0.00)								
Prionotus sp.	8(	0.00)	, 9(	0.10)	, 9(	0.10)	, 10(	2.00)	, 17(	0.00)	, 22(	0.20)
	82(	0.30)	, 83(	7.20)	, 88(	2.40)	, 89(	0.30)	, 90(	3.60)	, 91(	0.84)
	103(	1.80)	, 106(	0.00)	, 127(	0.00)	, 138(	0.00)	, 165(	0.00)	, 176(	0.00)
	207(	0.00)	, 220(	0.00)	, 230(	1.20)	, 299(	0.14)	, 312(	1.20)	, 354(	0.00)
	355(	0.00)	, 360(	0.00)	, 367(	0.00)	, 368(	0.00)	, 383(	11.20)	, 472(	0.60)
	507(	0.00)	, 624(	0.00)	, 650(	0.00)	, 662(	0.20)	, 931(	0.12)	, 937(	0.16)
	938(	0.00)	, 939(	0.00)	, 950(	0.06)	, 986(	0.00)	,1095(	0.72)	,1118(	0.40)
Prionotus rubio	5(	0.00)	, 94(	0.90)	, 297(	0.06)						
Prionotus punctatus	25(	13.20)	, 51(	1.73)	, 123(	0.00)	, 128(	0.70)	, 141(	0.60)	, 144(	0.20)
	145(	0.20)	, 150(	27.04)	, 159(	0.10)	, 159(	0.96)	, 171(	0.00)	, 173(	24.80)
	174(	9.20)	, 174(	0.00)	, 175(	2.70)	, 184(	16.80)	, 185(	0.60)	, 186(	48.60)
	191(	0.80)	, 192(	9.80)	, 199(	0.30)	, 200(	0.87)	, 205(	3.60)	, 207(	1.60)
	221(	1.20)	, 232(	1.00)	, 232(	0.00)	, 258(	28.80)	, 260(	0.00)	, 261(	1.60)
	277(	0.60)	, 279(	0.80)	, 285(	0.40)	, 290(	1.20)	, 295(	0.04)	, 307(	7.20)
	352(	0.60)	, 361(	0.80)	, 367(	0.80)	, 368(	0.40)	, 403(	2.40)	, 408(	6.00)
	409(	38.73)	, 410(	18.60)	, 424(	0.80)	, 427(	6.00)	, 429(	11.20)	, 432(	1.60)
	433(	2.00)	, 437(	0.50)	, 441(	1.00)	, 442(	2.40)	, 443(	16.00)	, 444(	49.60)
	445(	2.00)	, 446(	8.40)	, 447(	0.40)	, 448(	4.60)	, 450(	0.00)	, 451(	0.60)
	452(	0.00)	, 461(	8.40)	, 466(	12.80)	, 467(	0.00)	, 470(	1.00)	, 480(	14.00)
	482(	1.00)	, 484(	70.20)	, 485(	0.00)	, 486(	5.60)	, 512(	0.75)	, 513(	1.60)
	538(	3.20)	, 545(	3.00)	, 546(	0.00)	, 547(	10.29)	, 548(	4.80)	, 549(	1.50)
	558(	1.20)	, 565(	0.60)	, 567(	3.00)	, 593(	1.00)	, 595(	0.30)	, 596(	0.20)
	597(	0.00)	, 600(	1.40)	, 609(	0.00)	, 618(	1.37)	, 619(	1.20)	, 620(	0.60)
	625(	3.60)	, 626(	12.00)	, 627(	2.00)	, 628(	4.20)	, 631(	3.50)	, 633(	3.20)
	642(	10.29)	, 643(	4.00)	, 644(	1.20)	, 650(	3.00)	, 651(	1.00)	, 652(	0.40)
	653(	4.00)	, 654(	25.20)	, 662(	0.00)	, 663(	2.50)	, 664(	0.32)	, 665(	6.60)
	671(	0.43)	, 672(	2.40)	, 673(	10.20)	, 679(	2.00)	, 686(	2.70)	, 687(	0.20)
	688(	0.00)	, 695(	0.00)	, 705(	7.00)	, 706(	2.00)	, 709(	0.00)	, 711(	1.60)
	712(	2.40)	, 713(	8.00)	, 719(	0.10)	, 721(	0.60)	, 722(	2.40)	, 723(	5.60)
	724(	7.60)	, 725(	1.20)	, 726(	1.60)	, 728(	11.20)	, 729(	8.00)	, 730(	2.00)
	736(	0.00)	, 770(	1.00)	, 783(	0.40)	, 786(	0.00)	, 814(	2.40)	, 815(	3.80)
	816(	14.70)	, 825(	0.24)	, 828(	1.00)	, 830(	0.00)	, 839(	0.10)	, 840(	2.10)
	842(	2.40)	, 845(	3.20)	, 854(	2.00)	, 854(	5.10)	, 856(	0.70)	, 858(	7.00)
	858(	12.32)	, 890(	0.00)	, 905(	0.40)	, 910(	0.10)	, 920(	42.00)	, 921(	1.00)
	922(	2.80)	, 938(	0.20)	, 939(	0.40)	, 943(	0.80)	, 945(	3.00)	, 950(	0.60)
	951(	0.30)	, 959(	1.80)	, 960(	1.92)	, 966(	0.60)	, 979(	0.00)	, 989(	0.80)
	1007(	0.80)	,1008(	0.80)	,1009(	2.50)	,1010(	2.50)	,1014(	3.20)	,1020(	1.40)
	1022(	4.30)	,1023(	0.60)	,1027(	0.40)	,1028(	29.08)	,1031(	63.50)	,1038(	15.60)
	1039(	3.20)	,1052(	7.00)	,1053(	1.80)	,1050(	1.80)	,1062(	0.00)	,1064(	0.76)
	1069(	0.00)	,1071(	0.08)	,1076(	2.40)	,1079(	0.00)	,1080(	0.39)	,1082(	1.80)
	1084(	5.00)	,1088(	0.20)	,1090(	0.88)	,1091(	2.10)	,1095(	5.00)	,1098(	0.80)
	1099(	3.66)	,1104(	2.40)	,1105(	3.50)	,1106(	0.36)	,1107(	1.20)	,1114(	2.47)
	1116(	1.10)	,1123(	0.20)	,1133(	12.30)	,1134(	1.80)	,1137(	9.20)	,1132(	9.00)
	1138(	1.80)	,1140(	9.67)	,1146(	3.00)	,1148(	4.00)	,1152(	4.00)	,1153(	0.80)
	1154(	1.58)	,1156(	1.20)	,1160(	0.18)	,1161(	0.04)	,1162(	0.33)	,1163(	1.40)
	1165(	0.00)	,1168(	1.00)	,1169(	0.24)	,1170(	5.60)	,1172(	0.04)	,1174(	1.34)
	1177(	1.00)	,1178(	0.06)	,1178(	3.20)	,1179(	0.60)	,1183(	4.02)	,1183(	0.00)
	1184(	3.20)	,1185(	1.00)	,1188(	0.40)	,1191(	2.52)	,1192(	0.00)	,1201(	0.10)
	1207(	0.00)										
Prionotus stearnsi	144(	0.20)	, 168(	0.00)	, 169(	0.00)	, 172(	0.00)	, 184(	0.60)	, 191(	0.00)
	198(	0.00)	, 207(	1.20)	, 227(	0.00)	, 256(	1.20)	, 258(	28.80)	, 266(	0.40)
	279(	0.80)	, 295(	0.00)	, 296(	16.00)	, 297(	0.02)	, 321(	0.40)	, 399(	88.00)
	400(	0.00)	, 401(	0.40)	, 410(	9.30)	, 414(	0.20)	, 416(	0.20)	, 490(	0.00)
	491(	3.80)	, 495(	0.00)	, 496(	0.00)	, 516(	0.00)	, 517(	0.80)	, 525(	0.00)

Prionotus stearnsi (cont.)

335(	0.40)	, 557(	0.00)	, 573(	0.00)	, 577(	0.80)	, 596(	0.20)	, 617(	6.00)	,
619(	0.00)	, 652(	1.40)	, 653(	0.00)	, 672(	0.80)	, 673(	0.00)	, 686(	0.60)	,
712(	3.20)	, 759(	0.00)	, 760(	0.40)	, 775(	0.00)	, 808(	0.17)	, 814(	4.20)	,
815(	1.00)	, 830(	0.00)	, 831(	3.90)	, 832(	0.00)	, 833(	2.16)	, 834(	0.00)	,
835(	0.00)	, 839(	0.40)	, 840(	0.90)	, 841(	0.00)	, 842(	0.60)	, 843(	9.24)	,
845(	0.00)	, 854(	1.60)	, 866(	0.00)	, 867(	4.28)	, 914(	0.40)	, 926(	0.00)	,
952(	0.00)	, 1000(	0.80)	, 1008(	6.00)	, 1009(	0.30)	, 1010(	5.80)	, 1014(	1.20)	,
1027(	0.14)	, 1067(	2.80)	, 1095(	1.20)	, 1096(	0.00)	, 1136(	3.00)	, 1158(	0.80)	,
1162(	0.00)	, 1177(	0.42)	, 1178(	0.00)	, 1183(	0.00)	, 1185(	1.00)			

Prionotus ophryas

147(0.40), 152(0.20), 1123(0.10)

Prionotus beani

147(	1.20)	, 510(	13.60)	, 516(	13.80)	, 528(	0.30)	, 567(	2.50)	, 618(	5.49)	,
672(	2.00)	, 784(	0.60)	, 785(	0.00)	, 787(	2.20)	, 789(	0.80)	, 791(	1.40)	,
792(	0.12)	, 794(	3.00)	, 795(	1.80)	, 808(	19.95)	, 809(	0.30)	, 814(	0.60)	,
824(	0.50)	, 890(	0.00)	, 1116(	0.50)	, 1118(	5.36)	, 1118(	0.40)	, 1134(	0.90)	,
1135(	3.20)	, 1136(	2.28)	, 1158(	1.20)	, 1186(	0.04)					

Prionotus roseus

222(	0.36)	, 349(	0.20)	, 526(	0.45)	, 573(	0.80)	, 794(	1.50)	, 815(	0.50)	,
834(	0.00)	, 843(	1.84)	, 881(	0.40)	, 936(	0.05)	, 949(	0.08)	, 981(	0.80)	,
990(	0.08)	, 1000(	0.60)	, 1010(	2.30)	, 1079(	0.00)	, 1106(	4.32)	, 1114(	2.19)	,
1115(	0.40)	, 1131(	0.02)	, 1185(	0.10)							

Prionotus carolinus

299(	0.14)	, 383(	0.80)	, 394(	0.40)	, 399(	2.00)	, 410(	2.30)	, 412(	1.80)	,
416(	0.20)	, 433(	0.00)	, 458(	0.60)	, 492(	0.60)	, 496(	0.50)	, 548(	0.00)	,
722(	0.00)											

TRACHICHTHYIDAE

457(0.00)

Gephyroberyx darwini

525(2.71)

Hoplostethus sp

217(0.00), 218(0.00), 790(0.00)

Hoplostethus occidentalis

217(	0.00)	, 742(	0.00)	, 812(	9.20)	, 1094(	0.00)	, 1120(	0.12)	, 1142(	0.60)	,
1143(	0.09)	, 1151(	0.12)	, 1194(	0.20)							

TRICHIURIDAE

Aphanopus carbo

146(1.50), 164(0.40)

Benthodesmus tenuis

145(	0.20)	, 146(	0.00)	, 392(	0.20)	, 393(	0.00)	, 395(	2.80)	, 397(	1.50)	,
420(	1.80)	, 421(	1.47)	, 457(	0.40)	, 568(	6.00)	, 616(	3.00)	, 683(	2.10)	,
684(	2.10)	, 685(	6.00)	, 702(	0.20)	, 742(	0.24)	, 800(	2.50)	, 810(	1.50)	,
811(	1.80)	, 869(	0.00)	, 879(	27.50)	, 924(	8.40)	, 925(	1.50)	, 1011(	1.40)	,
1040(	0.60)	, 1092(	1.40)	, 1102(	0.09)	, 1103(	2.24)	, 1119(	3.00)	, 1120(	2.85)	,
1129(	0.00)	, 1130(	1.82)	, 1142(	3.60)	, 1143(	1.35)	, 1151(	3.00)	, 1193(	1.50)	,
1194(	1.25)											

Hollardia hollardia

390(1.41), 790(0.05), 879(0.00)

Lepidopus caudatus

175(	0.00)	, 190(	0.10)	, 191(	0.20)	, 218(	0.80)	, 219(	0.00)	, 524(	0.60)	,
526(	0.15)	, 576(	1.80)	, 577(	5.60)	, 578(	16.40)	, 579(	21.82)	, 594(	0.39)	,
601(	2.47)	, 742(	1.20)	, 811(	1.50)	, 822(	0.15)	, 878(	0.45)			

Trichiurus lepturus

1(	22.40)	, 2(	2.60)	, 3(	11.90)	, 4(	1.50)	, 5(	0.00)	, 9(	1.60)	,
12(	1.20)	, 13(	1.80)	, 15(	85.20)	, 16(	2.20)	, 25(	195.00)	, 26(	5.00)	,
27(	0.80)	, 30(	0.00)	, 38(	162.00)	, 39(	188.00)	, 43(	45.60)	, 44(	52.60)	,
45(	1.00)	, 46(	25.60)	, 47(	221.80)	, 51(	13.87)	, 60(	1.00)	, 61(	13.80)	,
29(	0.00)	, 62(	6.60)	, 62(	2.00)	, 63(	0.00)	, 68(	12.80)	, 68(	9.80)	,
69(	2.60)	, 70(	4.00)	, 71(	26.55)	, 74(	28.20)	, 75(	1.60)	, 79(	0.00)	,
82(	0.90)	, 85(	11.00)	, 86(	168.00)	, 87(	226.40)	, 88(	14.40)	, 89(	10.20)	,
90(	7.40)	, 91(	40.00)	, 92(	96.00)	, 93(	1.40)	, 94(	34.80)	, 95(	36.00)	,
96(	74.40)	, 98(	72.80)	, 98(	6.20)	, 101(	68.57)	, 102(	8.00)	, 103(	13.80)	,
104(	2.40)	, 110(	0.10)	, 112(	52.80)	, 113(	2.60)	, 114(	9.60)	, 115(	2.40)	,
118(	32.40)	, 120(	0.00)	, 121(	1.60)	, 121(	12.80)	, 122(	1400.00)	, 123(	2.88)	,
124(	15.60)	, 129(	0.00)	, 130(	14.40)	, 131(	13.20)	, 133(	7.00)	, 134(	8.00)	,
136(	3.20)	, 138(	0.00)	, 145(	0.30)	, 152(	0.10)	, 167(	63.60)	, 167(	0.76)	,
167(	1.50)	, 172(	75.20)	, 173(	7.60)	, 174(	7.50)	, 175(	4.80)	, 183(	1.00)	,
184(	8.20)	, 191(	5.60)	, 192(	4.10)	, 194(	162.24)	, 196(	3.40)	, 197(	234.00)	,

Trichiurus lepturus (cont.)

202(149.40)	, 203(7.80)	, 204(2.60)	, 208(9.20)	, 213(4.40)	, 220(0.40)	,
220(0.40)	, 221(1.20)	, 221(0.00)	, 232(0.60)	, 233(0.00)	, 237(30.60)	,
238(11.00)	, 239(7.70)	, 240(35.80)	, 240(0.00)	, 241(6.00)	, 242(21.00)	,
242(12.00)	, 243(5.20)	, 244(54.60)	, 244(0.00)	, 245(1.60)	, 246(0.80)	,
247(2.20)	, 250(10.40)	, 250(3.20)	, 251(7.20)	, 252(2.90)	, 253(10.40)	,
254(6.00)	, 255(3.00)	, 260(1.20)	, 261(8.08)	, 262(4.00)	, 262(0.00)	,
263(0.00)	, 269(8.40)	, 279(4.80)	, 283(67.20)	, 286(1.00)	, 287(0.30)	,
289(1.00)	, 291(1.00)	, 292(4.40)	, 293(2.00)	, 294(1.60)	, 295(2.80)	,
297(0.10)	, 299(0.55)	, 303(2.40)	, 304(14.80)	, 306(1.40)	, 307(381.60)	,
309(8.80)	, 310(12.00)	, 311(44.00)	, 311(6.80)	, 313(5.00)	, 314(3.60)	,
322(904.80)	, 323(20.00)	, 326(12.80)	, 328(67.60)	, 328(10.80)	, 329(15.00)	,
338(40.00)	, 339(21.60)	, 343(30.00)	, 344(4.00)	, 354(25.00)	, 356(63.00)	,
357(9.00)	, 358(6.46)	, 360(146.57)	, 362(0.20)	, 365(4.40)	, 366(10.00)	,
369(2.40)	, 371(64.00)	, 375(12.00)	, 378(52.00)	, 379(0.40)	, 380(0.40)	,
386(157.60)	, 389(1.80)	, 393(0.79)	, 402(73.00)	, 403(3.20)	, 404(121.00)	,
405(1.60)	, 406(244.80)	, 406(6.80)	, 407(1.00)	, 408(144.00)	, 409(14.00)	,
410(9.30)	, 415(21.40)	, 427(11.40)	, 428(30.72)	, 429(5.60)	, 430(0.80)	,
432(3.00)	, 433(25.60)	, 434(9.60)	, 435(754.40)	, 437(15.00)	, 438(261.80)	,
436(40.00)	, 439(196.80)	, 440(20.00)	, 441(35.00)	, 442(19.60)	, 442(8.20)	,
443(38.40)	, 444(48.00)	, 445(1.50)	, 446(71.40)	, 447(23.40)	, 448(16.60)	,
450(0.09)	, 451(2.00)	, 452(11.40)	, 453(9.67)	, 454(52.80)	, 455(0.60)	,
466(40.00)	, 476(0.60)	, 484(15.60)	, 486(260.80)	, 488(2.52)	, 489(4.40)	,
490(80.00)	, 491(95.00)	, 492(9.60)	, 493(6.86)	, 499(8.40)	, 511(426.00)	,
527(3.20)	, 528(2.60)	, 535(0.40)	, 538(16.80)	, 539(19.20)	, 540(301.00)	,
541(87.18)	, 543(54.00)	, 543(8.00)	, 544(28.00)	, 545(89.00)	, 546(3.60)	,
547(6.86)	, 551(6.40)	, 553(987.40)	, 554(65.00)	, 557(0.40)	, 559(19.60)	,
560(6.80)	, 561(32.00)	, 566(25.00)	, 569(1.80)	, 571(6.00)	, 572(16.20)	,
573(5.20)	, 591(2.61)	, 593(2.80)	, 604(3.40)	, 606(2.40)	, 624(73.60)	,
625(24.00)	, 626(8.00)	, 633(1.60)	, 635(1.40)	, 638(9.60)	, 639(61.60)	,
640(51.20)	, 641(112.00)	, 654(10.40)	, 655(60.00)	, 665(6.60)	, 667(0.40)	,
668(16.00)	, 669(3.60)	, 670(1.20)	, 673(1.20)	, 675(54.40)	, 676(36.00)	,
677(0.40)	, 678(1.50)	, 679(10.80)	, 686(0.60)	, 687(26.00)	, 688(3.00)	,
690(32.20)	, 691(30.00)	, 692(1.80)	, 694(16.00)	, 695(1.20)	, 699(46.60)	,
700(139.20)	, 701(3.20)	, 705(49.60)	, 706(74.20)	, 707(102.40)	, 708(32.00)	,
709(6.60)	, 710(6.00)	, 711(20.00)	, 712(4.80)	, 713(9.00)	, 714(67.50)	,
715(75.00)	, 716(32.50)	, 719(25.00)	, 720(38.00)	, 721(12.00)	, 722(0.00)	,
723(7.60)	, 725(4.80)	, 726(13.60)	, 728(8.00)	, 729(12.00)	, 730(93.00)	,
731(40.60)	, 732(10.60)	, 733(5.60)	, 734(40.00)	, 735(1.20)	, 737(63.40)	,
738(2.00)	, 739(62.60)	, 747(25.00)	, 750(38.00)	, 751(6666.67)	, 754(0.50)	,
756(10.97)	, 757(2.80)	, 758(7.40)	, 761(5.70)	, 762(59.40)	, 766(3.00)	,
767(0.86)	, 781(112.80)	, 782(8.00)	, 783(1.00)	, 814(4.80)	, 815(2.50)	,
824(4.40)	, 826(29.40)	, 831(0.90)	, 833(0.60)	, 834(0.60)	, 847(27.60)	,
848(5.00)	, 849(3.00)	, 849(7.20)	, 850(0.00)	, 851(178.20)	, 859(24.20)	,
860(30.00)	, 861(14.70)	, 862(0.80)	, 868(9.20)	, 872(0.00)	, 877(1.60)	,
906(0.50)	, 914(0.60)	, 920(3.00)	, 922(0.80)	, 927(57.60)	, 928(1.60)	,
934(6.40)	, 940(14.00)	, 941(40.60)	, 943(1.10)	, 944(4.80)	, 945(0.60)	,
946(43.20)	, 947(37.80)	, 948(15.60)	, 958(1.10)	, 961(223.20)	, 961(39.60)	,
962(16.50)	, 965(8.70)	, 965(67.00)	, 966(1.20)	, 967(11.00)	, 967(6.00)	,
969(12.90)	, 969(4.00)	, 971(38.00)	, 971(0.74)	, 972(6.00)	, 975(8.40)	,
985(64.00)	, 987(80.00)	, 991(0.60)	, 993(139.50)	, 995(18.60)	, 997(0.70)	,
998(30.60)	, 999(30.60)	, 1002(56.00)	, 1003(25.60)	, 1004(1.60)	, 1005(3.00)	,
1006(30.40)	, 1007(0.80)	, 1015(13.60)	, 1017(10.00)	, 1018(45.60)	, 1019(3.20)	,
1020(1.50)	, 1021(60.80)	, 1022(8.40)	, 1023(10.20)	, 1024(3.40)	, 1025(2.00)	,
1026(18.00)	, 1027(130.00)	, 1029(7.60)	, 1030(195.00)	, 1031(6.00)	, 1034(40.00)	,
1035(7.00)	, 1036(15.40)	, 1037(6.00)	, 1038(10.80)	, 1039(12.00)	, 1043(2.00)	,
1051(21.60)	, 1052(2.10)	, 1053(10.80)	, 1050(9.60)	, 1054(8.40)	, 1055(38.40)	,
1056(28.00)	, 1057(80.28)	, 1058(74.60)	, 1059(12.00)	, 1060(0.60)	, 1060(8.00)	,

Trichiurus lepturus (cont.)

1061(	89.60)	,1061(	12.80)	,1062(	10.00)	,1063(	20.40)	,1064(	3.30)	,1065(	5.70)	,
1067(	2.46)	,1068(	36.90)	,1069(	5.44)	,1070(	4.80)	,1071(	6.00)	,1072(	40.40)	,
1073(	4.00)	,1074(	118.00)	,1075(	35.00)	,1076(	19.00)	,1076(	12.00)	,1077(	70.00)	,
1077(	9.60)	,1082(	0.60)	,1084(	5.00)	,1085(	1.60)	,1088(	0.32)	,1091(	10.20)	,
1095(	2.30)	,1098(	101.40)	,1107(	2.00)	,1111(	15.00)	,1136(	25.20)	,1140(	9.33)	,
1150(	0.87)	,1162(	0.33)	,1165(	6.30)	,1166(	4.04)	,1167(	4.00)	,1168(	4.80)	,
1169(1.00)	,1170(6.00)	,1171(0.90)	,1172(1.00)	,1179(308.40)	,1180(28.00)	,
1188(0.20)											

TRIACANTHODIDAE

391(0.00)	,396(0.30)
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TURTLE

798(80.00)
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Lepidochelys olivacea

62(0.00)
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UNIAA00

UNIDENTIFIED FISH

187(0.20)	,262(0.00)	,924(5.80)	,925(3.60)
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URANOSCOPIIDAE

579(3.27)
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Enatnagnus egregius

1103(0.32)	,1130(0.30)
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Kathetostoma cubana

175(0.15)	,1121(0.16)
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Kathetostoma albiguttata

191(0.20)	,199(0.80)
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XIPHIIDAE

Xiphias gladius

1043(9.50)
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ZEIDAE

Lytropsis roseus

107(0.00)	,139(1.00)	,145(0.10)	,146(0.00)	,164(0.20)	,185(0.04)	,
189(1.80)	,191(0.00)	,200(0.00)	,218(0.04)	,219(0.20)	,392(0.00)	,
526(	0.00)	,568(	1.20)	,578(	0.80)	,579(	2.18)	,742(	0.00)	,780(	0.75)	,
790(	0.10)	,809(	0.45)	,823(	0.10)	,879(	1.65)	,1094(	0.00)	,1102(	0.90)	,
1119(	0.30)	,1143(	0.90)	,1151(	0.06)	,1193(	0.30)	,1194(	0.10)			

Zenion sp.

107(	0.00)	,115(	1.00)	,120(	27.60)	,145(	0.00)	,393(	0.00)	,396(	0.30)	,
1094(0.32)	,1119(1.20)	,1129(0.12)	,1151(0.06)					

Zenion hololepis

164(0.00)	,742(0.00)	,790(0.00)	,822(0.30)	,823(0.00)
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Zenopsis ocellata

193(21.75)	,516(0.00)	,780(2.10)	,808(0.35)	,812(13.50)	,826(1.20)	,
878(0.90)	,1094(1.60)	,1135(0.20)							



Annex 7. Estimates of densities (swept area) by main species and area.

Apendice 7. Estimados de densidad (area barrida) para especies principales y areas.

SWEPT AREA ANALYSIS FROM STATION THROUGH STATION 44
SOMINAME SHELF, FIRST SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% incidence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Cynoscion acoupa</i>	3	1		1		14	0.88	1.55			
<i>Knomboplites aurorubens</i>	9	5	3			49	0.76	0.04	1.73		
<i>Trichiurus lepturus</i>	10	2	3			43	0.69	1.20	0.01		
<i>Dasyatis geijskesi</i>				1		3	0.48	0.84			
<i>Lutjanus purpureus</i>	7	3	2			39	0.47	0.03	1.04		
<i>Pristipomoides macrophthalmus</i>	10	3	1			40	0.35		0.81		
<i>Lutjanus synagris</i>	6		1			17	0.32	0.55			
<i>Sphyrna guachancho</i>	12	1	1			40	0.24	0.36	0.09		
<i>Isopisthus parvipinnis</i>	3	2	1			17	0.23	0.40			
<i>Chaetodipterus faber</i>	5	2	1			23	0.23	0.41			
<i>Macraron ancylodon</i>	6		2			20	0.21	0.37			
<i>Orthopristis ruber</i>	3	1	1			14	0.19	0.34			
<i>Scomberomorus brasiliensis</i>	14	2				43	0.18	0.20	0.16		
<i>Peprilus paru</i>	17	1				49	0.16	0.23	0.06		
<i>Cynoscion virescens</i>	5	2				20	0.16	0.28			
Sciaenidae juveniles	1		1			6	0.15	0.26			
<i>Ctenosciaena gracilicirrus</i>			1			3	0.14	0.24			
<i>Lutjanus griseus</i>				1			0.12	0.21			
<i>Rhizoprionodon</i> sp.	3	1				11	0.09	0.11	0.05		
<i>Loligo pealei</i>	9	1				29	0.08	0.10	0.06		
<i>Saurida brasiliensis</i>	1	1				6	0.06		0.14		
<i>Xiphepenaeus kroyeri</i>	4	1				14	0.06	0.11			
<i>Rhizoprionodon lalandii</i>	3	1				11	0.06	0.11	0.01		
<i>Hicropogonias furnieri</i>	6					17	0.06	0.11			
<i>Priacanthus arenatus</i>	13					37	0.06		0.14		
<i>Sphyrna lewini</i>	3	1				11	0.05	0.07	0.01		
<i>Penaeus subtilis</i>	11					31	0.03	0.05			
Shrimps, small, non comm.	3					9	0.02	0.04			
<i>Nematopalaemon schmitti</i>	1					3					
<i>Penaeus brasiliensis</i>	7					20		0.01			
Other fish							0.72	0.90	0.56		
Sum all species							7.25	9.12	4.87		
Sum Snappers							2.04	0.85	3.61		
Sum Groupers							0.01		0.02		
Sum Grunts							0.23	0.38	0.05		
Sum Croakers							1.93	3.38			
Sum Seabreams							0.02	0.03			
Sum Sharks							0.30	0.41	0.15		
Sum Rays							0.56	0.94			
Sum Squids							0.12	0.12	0.13		
Sum											
Sum shrimp (excl. SHRRAU1)							0.09	0.17			
Number of stations included in analysis, total and by depth strata							35	20	15		

SWEPT AREA ANALYSIS FROM STATION 299 THROUGH STATION 338
SURINAME SHELF, SECOND SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% incidence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus synagris	10	2	2			1	41	1.91	3.21		
Trichurus lepturus	12	1		1	1		35	1.32	2.17	0.06	
Knomopites aurorubens	12	2	4				49	0.85	0.13	1.90	
Sphyrana picudilla	3			1			11	0.74	1.25		
Xiphopenaeus kroyeri	2			1			8	0.69	1.16		
Scomberomorus brasiliensis	12	5					43	0.40	0.59	0.12	
Macrondon ancylodon	2	3	1				16	0.37	0.62		
Lupeneus parvus	8		2				27	0.31	0.52	0.01	
Peprilus paru	10	2	1				35	0.27	0.34	0.16	
Lutjanus purpureus	6	1	1				22	0.25	0.04	0.55	
Scomberomorus cavalla	4	1	1				16	0.23	0.34	0.06	
Loligo plei	7	2	1				27	0.22	0.36	0.02	
Penaeus subtilis	3		1				11	0.22	0.37		
Cynoscion virescens	1	2	1				8	0.21	0.35		
Bagre bagre	4	1	1				14	0.21	0.34		
Sphyrana guacnacho	9	1	1				30	0.18	0.13	0.25	
Knizoprionodon porosus	7		1				22	0.15	0.18	0.10	
Eucinostomus argenteus	7	2					24	0.14	0.23		
Orthopristis ruber	5		1				16	0.13	0.23		
Cynoscion jamaicensis	4	3					19	0.12	0.20	0.01	
Priacanthus arenatus	19	1					51	0.11	0.08	0.15	
Lutjanus vivanus			1				3	0.10		0.24	
Sphyrna lewini		1					3	0.08	0.13		
Chaetodipterus faber	7						19	0.07	0.11		
Loligo pealei	7						19	0.06	0.08	0.02	
Haemulon steindachneri	2	1					8	0.06	0.10		
Pristipomoides macrophthalmus	11	1					32	0.06		0.15	
Micropononias turneri	1	1					5	0.05	0.08		
Haemulon boschnae	5	1					16	0.05	0.04	0.07	
Penaeus brasiliensis	4						11	0.01	0.01		
Penaeus notialis	2						3		0.01		
Shrimps, spp., non comm.	1						3				
Other fish								0.56	0.51	0.60	
Sum all species							10.13	13.91	4.47		
Sum Snappers							3.23	3.43	2.92		
Sum Groupers							0.10	0.01	0.21		
Sum Grunts							0.28	0.44	0.07		
Sum Croakers							0.83	1.38	0.01		
Sum Seabreams							0.02	0.02	0.02		
Sum Sharks							0.29	0.34	0.21		
Sum Rays							0.02	0.04			
Sum Squids							0.30	0.46	0.05		
Sum											
Sum shrimps (excl. SHRAA01)							0.92	1.55			
Number of stations included in analysis, total and by depth strata							37	22	15		

SWEPT AREA ANALYSIS FROM STATION 609 THROUGH STATION 636
SURINAME SHELF, THIRD SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% incidence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Orthopristis ruber</i>	2	1			1	17	2.11	2.82			
<i>Rhinoptera bonasus</i>					1	4	1.31	1.74			
<i>Lutjanus synagris</i>	11	2		1		54	0.73	0.97			
<i>Cynoscion jamaicensis</i>	9		2			42	0.67	0.88	0.04		
<i>Eucinostomus argenteus</i>	9	2	2			54	0.60	0.79	0.04		
<i>Ctenosciaena gracilicirrhus</i>	2	2	1			13	0.57	0.76			
<i>Lutjanus purpureus</i>	7	1	1			29	0.43	0.12	1.34		
<i>Pristipomoides macrophthalmus</i>	6	1	2			38	0.42	0.63	1.60		
<i>Rnamboplites aurorubens</i>	9	3				46	0.35	0.15	0.94		
<i>Upeneus parvus</i>	11	3				58	0.29	0.26	0.40		
<i>Rhizoprionodon porosus</i>	3	1	1			21	0.24	0.21	0.35		
<i>Priacanthus arenatus</i>	14	1				63	0.23	0.26	0.14		
<i>Loligo plei</i>	10	1				46	0.17	0.22	0.02		
<i>Scomberomorus cavalla</i>	10	1				42	0.16	0.16	0.13		
<i>Trichiurus lepturus</i>	4	1				21	0.15	0.20			
<i>Haemulon aurolineatum</i>	1	1				8	0.15	0.20			
<i>Synodus poeyi</i>	4	1				21	0.13		0.51		
<i>Sphyrnaea guacnanco</i>	6	1				29	0.12	0.16	0.03		
<i>Macrædon ancylodon</i>	2	1				8	0.11	0.15			
<i>Haemulon boschmae</i>	6	1				29	0.09	0.11	0.02		
<i>Peprius paru</i>	3	1				17	0.08	0.11			
<i>Haemulon steindachneri</i>	7					29	0.08	0.11			
<i>Eucinostomus gula</i>		1				4	0.08	0.10			
<i>Dasyatis sp</i>		1				4	0.07	0.09			
<i>Acanthostracion quadricornis</i>	9	1				42	0.07	0.08	0.03		
<i>Lutjanus griseus</i>	1	1				8	0.07	0.09			
<i>Diplectrum formosum</i>	9	1				42	0.06	0.08			
<i>Mustelus canis</i>	1	1				8	0.05	0.06	0.03		
<i>Penaeus brasiliensis</i>	7					29	0.04	0.03	0.08		
<i>Penaeus schmitti</i>	1					4	0.01	0.02			
<i>Penaeus subtilis</i>	3					13	0.01	0.01			
Other fish							0.84	0.90	0.76		
sum all species							10.49	11.87	6.45		
Sum Snappers							2.01	1.36	3.98		
Sum Groupers							0.08	0.09	0.05		
Sum Grunts							2.50	3.34	0.02		
Sum Croakers							1.47	1.94	0.04		
Sum Seabreams							0.03	0.04	0.01		
Sum Sharks							0.37	0.34	0.45		
Sum Rays							1.41	1.87			
Sum Squids							0.17	0.22	0.02		
Sum											
Sum shrimps (excl. SHKAA01)							0.06	0.06	0.08		
Number of stations included in analysis, total and by depth strata							24	18	6		

SWEPT AREA ANALYSIS FROM STATION 919 THROUGH STATION 952
 SURINAME SHELF, FOURTH SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/NM GROUPS						% inci- dence	Mean dens. t/nm ²	mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Rhomboplites aurorubens	11	3	4	1			63	1.48	0.47	3.83		
Orthopristis ruder	3				1		13	1.46	2.09			
Lutjanus synagris	7	3	2	1			40	0.95	1.36			
Macraron ancylodon		2	1				10	0.44	0.63			
Haemulon aurolineatum	4		2				20	0.33	0.45	0.06		
Sphyræna guacnacho	12	1	1				47	0.31	0.40	0.09		
Priacanthus arenatus	14	3					57	0.31	0.20	0.58		
Scomberomorus brasiliensis	11	4					47	0.30	0.41	0.04		
Trichiurus lepturus	8	4					40	0.25	0.34	0.03		
Upeneus parvus	9	3					40	0.25	0.32	0.08		
Lutjanus purpureus	11	3					47	0.25	0.20	0.38		
Chaetodipterus taber	4	4					27	0.24	0.35			
Scomberomorus cavalla	14	1					50	0.22	0.27	0.12		
Isopisthus parvipinnis		1	1				7	0.21	0.30			
Eucinostomus argenteus	2	3					13	0.20	0.29			
Peprius paru	8	1					30	0.18	0.21	0.13		
Haemulon steindachneri	5		1				20	0.13	0.19			
Stelliter microps			1				3	0.10	0.15			
bagre bagre	3	1					13	0.09	0.13			
Knizopriodon porosus	10						33	0.08	0.07	0.10		
Uasyatis guttata	2	1					10	0.08	0.11			
Pristipomoides macrophthalma	16						53	0.07	0.03	0.16		
Loligo piei	20						67	0.06	0.07	0.04		
Larcharninus porosus	4						13	0.06	0.05	0.09		
Cynoscion virescens	5						17	0.06	0.09			
Eucinostomus gula	7						23	0.06	0.08	0.01		
Colomesus sp		1					3	0.05	0.07			
Penaeus brasiliensis	8						27	0.02	0.02			
Xiphopenaeus kroyeri	3						10	0.01	0.01			
Penaeus subtilis	7						23	0.01	0.02			
Penaeus schmitti	1						3					
Penaeus notialis	2						7					
Shrimps, small, non comm.	2						/					
Other fish								0.83	1.11	0.23		
Sum all species								9.09	10.49	5.97		
Sum Snappers								2.80	2.10	4.43		
Sum Groupers								0.02	0.05			
Sum Grunts								2.00	2.83	0.09		
Sum Croakers								1.02	1.47	0.01		
Sum Seabreams								0.02	0.02			
Sum Sharks								0.21	0.20	0.22		
Sum Rays								0.15	0.21			
Sum Squids								0.07	0.09	0.04		
Sum												
Sum shrimps (excl. SHKABU1)								0.04	0.05			

SWEPT AREA ANALYSIS FROM STATION 1 THROUGH STATION 952
SURINAME SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 1 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus synagris	34	7	5	2	1	37	1.01	1.58			
Rhomboplites aurorubens	41	13	11	1		52	0.88	0.20	2.10		
Orthopristis ruber	13	2	2		2	15	0.84	1.31			
Trichurus lepturus	34	8	3	1	1	37	0.67	1.02	0.03		
Lutjanus purpureus	31	8	4			33	0.34	0.10	0.78		
Macraron ancylodon	10	6	4			14	0.29	0.46			
Cynoscion acoupa	10	1		1		10	0.26	0.49			
Rhinoptera bonasus	2				1	2	0.25	0.39			
Scomberomorus brasiliensis	40	11				38	0.24	0.32	0.11		
Sphyræna picudilla	12			1		10	0.23	0.35	0.02		
Sphyræna guachancho	39	4	3			37	0.22	0.26	0.14		
Xiphopenaeus kroyeri	9	1		1		9	0.22	0.35			
Upeneus parvus	42	6	2			40	0.22	0.28	0.10		
Pristipomoides macrophthalmus	43	5	3			40	0.21	0.02	0.57		
Eucinostomus argenteus	18	7	2			21	0.20	0.31	0.01		
Peprius paru	38	5	1			34	0.18	0.23	0.10		
Cynoscion jamaicensis	16	3	2			16	0.17	0.26	0.01		
Priacanthus arenatus	60	5				51	0.17	0.13	0.23		
Scomberomorus cavalla	31	3	1			27	0.15	0.20	0.07		
Ctenosciaena gracilicirrhus	4	2	2			6	0.15	0.24			
Chaetodipterus faber	20	6	1			21	0.15	0.21			
Dasyatis geijskesi				1		1	0.13	0.21			
Cynoscion virescens	11	4	1			12	0.12	0.19			
Haemulon aurolineatum	9	1	2			10	0.12	0.17	0.01		
Loligo plei	37	3	1			33	0.11	0.16	0.02		
Rhizoprionodon porosus	23	1	2			21	0.11	0.12	0.10		
Isopisthus parvipinnis	3	3	2			6	0.11	0.18			
Bagre bagre	12	2	1			12	0.09	0.13			
Penaeus subtilis	24		1			20	0.08	0.12			
Haemulon steindachneri	15	1	1			13	0.07	0.10			
Lutjanus oriseus	2	1	1			3	0.05	0.08			
Penaeus brasiliensis	26					21	0.01	0.02	0.01		
Shrimps, small, non comm.	6					5	0.01	0.01			
Nematopalaemon schmitti	1					1					
Penaeus schmitti	2					2					
Penaeus notialis	4					3					
Other fish							1.05	1.23	0.72		
Sum all species							9.11	11.36	5.13		
Sum Snappers							2.56	2.00	3.59		
Sum Groupers							0.05	0.03	0.09		
Sum Grunts							1.11	1.68	0.05		
Sum Croakers							1.29	2.05	0.01		
Sum Seabreams							0.01	0.03	0.01		
Sum Sharks							0.27	0.32	0.21		
Sum Rays							0.45	0.71			
Sum Squids							0.16	0.23	0.07		
Sum											
Sum shrimps (excl. SHRRAU1)							0.31	0.49	0.01		
Number of stations included in analysis, total and by depth strata							126	81	45		

SWEPT AREA ANALYSIS FROM STATION 1 THROUGH STATION 952
SURINAME SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 1 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS						% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²				
	<10	10-30	30-100	100-300	300-1000	>1000			200-300m	300-400m	400-500m	500-800	
Nematocarcinus rotundus	1	2	1				50	1.22					1.95
Lubiceps sp	1		1				25	0.57	0.67	3.92			
Miscellaneous fish	2		1				38	0.55					0.88
Polymixia sp	2	1					38	0.30	0.17	0.48	1.72		
Plesiopenaeus edwardsianus	8						100	0.27	0.06	0.07			0.41
Enlioteuthis adami	2	1					38	0.18					0.29
Geryon quinquegens			1				13	0.18					0.28
MACKOURIDAE	2	1					25	0.16			1.30		
Parasudis sp	3						38	0.11	0.19	0.42	0.30		
APOGONIDAE	3						38	0.11	0.07	0.20	0.57		
Illex sp	3						38	0.09	0.24	0.40	0.10		
S H R I M P S	2						25	0.07			0.04		0.10
Carcharhinus signatus	1						13	0.07		0.57			
MORIDAE	1						13	0.06					0.09
Nezumia suilla	2						25	0.06					0.10
POLYCHELIDAE	2						25	0.06			0.03		0.08
Benthodesmus tenuis	3						38	0.05					0.09
Nezumia cyrano	2						25	0.05					0.08
Coelorhynchus occa	3						38	0.05					0.09
Glyptocrangon sp	2						25	0.04					0.07
Pleoticus robustus	1						13	0.01			0.04		
NEMATOCARCINIDAE	1						13						
CRANGONIDAE	1						13						
Other fish								0.49	0.11	0.30	0.33		0.68
Sum all species								4.75	1.51	6.36	4.43		5.19
Sum Snappers													
Sum groupers													
Sum Grunts													
Sum Croakers													
Sum Seabreams													
Sum Sharks								0.13		0.87			0.03
Sum Rays								0.06					0.13
Sum Squids								0.28	0.24	0.40	0.10		0.31
Sum													
Sum shrimps (excl. SHRAA01)								1.61	0.06	0.07	0.08		2.53
Number of stations included in analysis, total and by depth strata								8	1	1	1		5

SNEPT AREA ANALYSIS FROM STATION 45 THROUGH STATION 86
 GUIANA SHELF, FIRST SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/HH GROUPS					% incidence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Knombopittes aurorubens</i>	7	4			1	32	1.67	2.32	0.43		
<i>Macrodon ancylodon</i>	14	3	2	2		42	1.49	1.96	0.59		
<i>Isopisthus parvipinnis</i>	4	2	1	1		21	0.75	1.06	0.16		
<i>Cynoscion virescens</i>	4	1	2	1		21	0.60	0.92			
<i>Nematopalaemon schmitti</i>	3	1	1	1		16	0.47	0.71			
<i>Trichiurus lepturus</i>	15		2			39	0.46	0.70			
<i>Xiphopenaeus kroyeri</i>	10	2	1			32	0.35	0.53			
<i>Cynoscion acrupa</i>	5		1			16	0.30	0.07	0.73		
<i>Cynoscion sp</i>	6	1	1			21	0.24	0.09	0.53		
<i>Lutjanus purpureus</i>	11	2				32	0.19	0.11	0.35		
<i>micropogonias turnieri</i>	12	1				26	0.16	0.24			
<i>Sphyræna guacnanco</i>	13	2				39	0.15	0.20	0.05		
<i>Scomberomorus cavalla</i>	9	2				29	0.15	0.11	0.24		
<i>Stellifer sp</i>	11	2				32	0.14	0.21			
<i>Peprius paru</i>	18	1				47	0.13	0.18	0.02		
<i>Ballistes capriscus</i>	1		1			5	0.11	0.15	0.05		
<i>Oxyatis americana</i>	3	1				11	0.10	0.16			
<i>Diapterus rhombeus</i>	1		1			5	0.10	0.15			
<i>Lutjanus analis</i>	2	1				8	0.09	0.11	0.05		
<i>Carcharhinus acronotus</i>	4	1				13	0.07	0.05	0.12		
<i>Umbrina coroides</i>		2				5	0.07	0.06	0.10		
<i>Nebrius microps</i>	7	1				21	0.07	0.11			
<i>Bagre bagre</i>	10					24	0.07	0.10			
<i>Arius grandicassia</i>	4	1				13	0.07	0.11			
<i>Sphyræna picudilla</i>	1	2				8	0.06		0.18		
<i>Penaeus subtilis</i>	18					47	0.06	0.03	0.11		
<i>Rhizoprionodon porosus</i>	10					26	0.06	0.06	0.05		
<i>Cynoscion jamaicensis</i>	2	1				8	0.06	0.09			
<i>Loligo pealei</i>	16					42	0.05	0.03	0.07		
<i>Scomberomorus brasiliensis</i>	12					32	0.05	0.08			
<i>Lutjanus synagris</i>	12					32	0.05	0.08	0.01		
<i>Chaetodipterus fader</i>	9					21	0.05	0.08			
<i>Arius quadriscutis</i>	5					13	0.05	0.08			
<i>Penaeus notialis</i>	3					8	0.01		0.01		
Shrimps, small, non comm.	1					3	0.01	0.01			
<i>Penaeus schmitti</i>	7					18					
<i>Penaeus brasiliensis</i>	5					13					
Other fish							0.74	0.81	0.62		
Sum all species							9.25	11.76	4.47		
Sum Snappers							2.00	2.62	0.85		
Sum Groupers							0.03	0.05			
Sum Grunts							0.13	0.17	0.03		
Sum Croakers							3.94	4.92	2.12		
Sum Seabreams							0.02	0.02	0.01		
Sum Sharks							0.27	0.20	0.36		
Sum Rays							0.19	0.24			
Sum Squids							0.06	0.04	0.07		
Sum											
Sum shrimps (excl. SHRKA01)							0.89	1.27	0.12		
NUMBER OF STATIONS INCLUDED IN ANALYSIS, TOTAL AND BY DEPTH STRATA							38	25	13		

SNEPI AREA ANALYSIS FROM STATION 3391KROUOH STATION 377
 GUIANA SHELF, SECOND SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/nm ²	mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 5m	50-120m	120-200m	200-201
Lutjanus purpureus	12		1	1		37	0.79	1.07	0.03		
Macraron ancylodon	4	6	3			26	0.59	0.79			
Scorpaenomoropus brasiliensis	14	1		1		39	0.39	0.52	0.03		
Trichinurus lepturus	11	2	1			37	0.35	0.47			
Chaetodontopterus faber	4	1	2			18	0.30	0.41			
Uasyatis (e)skesi	1	2	1			11	0.29	0.39			
Knobopolites aurorubens	8	1	1			26	0.23	0.23	0.21		
Micropononias furnieri	7		1			21	0.14	0.19			
Peprilus paru	16	1				45	0.13	0.16	0.03		
Loligo plei	19	1				53	0.13	0.15	0.06		
Cynoscion virescens	3	3				16	0.13	0.17			
Rhinoptera bonasus	1		1			5	0.11	0.14			
Pristipomoides macropthalmus	7	1				21	0.11	0.01	0.38		
Arius grandicassis	3	2				11	0.10	0.14			
Scorpaenomoropus cavalla	8					21	0.09	0.09	0.07		
Eucinostomus argenteus	10	1				29	0.09	0.12	0.01		
Balistes vetula	4	1				13	0.09	0.12			
Nematopalaemon schmitti			1			3	0.08	0.10			
Xiphopenaeus kroyeri	6					16	0.08	0.11			
Stellifer microps	3	1				11	0.08	0.10			
Lutjanus synagris	9					24	0.08	0.11			
Shrimps, larvae			1			3	0.07	0.09			
Haemulon aurilineatum	3	1				11	0.07	0.09			
Arius quadriscutis	1	1				5	0.07	0.10			
Mycteroperca bonaci			1			3	0.06		0.21		
Stellifer sp	5	2				18	0.06	0.09			
Upeneus parvus	12					32	0.06	0.05	0.08		
Knizoprionodon porosus	4	1				13	0.05	0.02	0.11		
Cynoscion acoupa	3					5	0.05	0.07			
SC(A)ELIURE	3					8	0.05	0.06			
Priacanthus arenatus	14	1				39	0.05	0.02	0.15		
Bagre naore	8					21	0.05	0.07			
Penaeus subtilis	10					39	0.02	0.02			
S H R I M P S	1					3	0.02	0.02			
Penaeus schmitti	5					13	0.01	0.01			
Penaeus brasiliensis	7					18	0.01	0.01	0.01		
Penaeus notialis	10					24	0.01	0.01	0.02		
Other fish							0.61	0.71	0.33		
Sum all species							5.70	7.03	1.73		
Sum Snappers							1.21	1.43	0.62		
Sum Groupers							0.07		0.23		
Sum Grunts							0.10	0.12	0.03		
Sum Croakers							1.21	1.61	0.02		
Sum Seabreams							0.01	0.02			
Sum Sharks							0.11	0.09	0.11		
Sum Rays							0.42	0.56			
Sum Squids							0.17	0.21	0.07		
Sum											
Sum SHRIMPS (EXCL. SHKRAU)							0.30	0.37	0.03		
Number of stations included in analysis, total and by depth strata							38	28	10		

SNEFT AREA ANALYSIS FROM STATION 637THROUGH STATION 667
 GUIANA SHELF, THIRD SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 5m	50-120m	120-200m	200-201
Trichurus lepturus	4	3	1			28	0.36	0.45			
Lynoscion jamaicensis	8	1	2			38	0.34	0.42	0.01		
Haemulon melianurum			1			3	0.33	0.41			
Scomberomorus cavalla	12	2				48	0.28	0.34	0.03		
Macrodon ancylodon	3	3				21	0.27	0.34			
Haemulon steindachneri	4	1	1			21	0.27	0.34			
Eucinostomus argenteus	12	2				48	0.23	0.29	0.02		
Sphyræna quachancho	5	1	1			24	0.21	0.26	0.03		
Lutjanus purpureus	9	1				28	0.18	0.11	0.46		
Priacanthus arenatus	11	2				45	0.16	0.11	0.34		
Athopeneus kroeyeri	2	1				10	0.12	0.15			
Upeneus parvus	14	1				52	0.12	0.10	0.19		
Diapterus rhombus	5	1				21	0.12	0.15			
Micropogonias turneri	11					38	0.11	0.14			
Rhomboplites aurorubens	12					41	0.11	0.11	0.12		
Prionna donci	1	1				7	0.10		0.49		
Romacanthus arcuatus	3	1				14	0.08	0.10			
Scomberomorus brasiliensis	2	1				10	0.07	0.09			
Stellifer sp	1	1				3	0.07	0.09			
Ctenosciaena gracilicirrus	2	1				7	0.07	0.09			
Haemulon aurolineatum	5	1				17	0.07	0.09			
Prionotus punctatus	11					38	0.06	0.07			
Sphyræna picudilla	4	1				17	0.06	0.07			
Isopisthus parvipinnis	5					17	0.06	0.07			
SCIAENIDAE	1	1				7	0.06	0.07			
Fristipomoides macrophthalmus	9					28	0.06	0.04	0.11		
bagre bagre	7					24	0.06	0.08			
Stellifer rastriter			1			3	0.05	0.06			
Lutjanus synagris	8					28	0.05	0.07			
Penaeus subtilis	6					21	0.04	0.05			
Penaeus brasiliensis	11					38	0.02	0.02	0.03		
Hematopalaemon schmitti	1					1	0.01	0.02			
Penaeus notialis	5					17	0.01	0.01			
Shrimps, small, non comm.	2					7	0.01	0.01			
SOLENOCERIDAE	1					3					
Other fish							0.94	1.08	0.40		
sum all species							5.16	5.90	2.23		
Sum Snappers							0.46	0.36	0.86		
Sum Groupers							0.04	0.05			
Sum Grunts							0.78	0.97			
Sum Croakers							1.21	1.49	0.01		
Sum Seadreams							0.04	0.05	0.01		
Sum Sharks							0.12	0.15			
Sum Rays							0.05	0.06	0.01		
Sum Squids							0.02	0.02	0.06		
Sum											
Sum shrimps (excl. SHKRABU)							0.20	0.25	0.03		
Number of stations included in analysis, total and by depth strata							29	23	5		

SWEPT AREA ANALYSIS FROM STATION 45 THROUGH STATION 1003
 GUIANA SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 2 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000			>1000	200-300m	300-400m	400-500m	500-800m
Neoscopeius sp							0.24				0.24
Plesionopaeus edwardsianus							0.23				0.23
Bathynomus giganteus							0.17				0.17
Coelocarcinus occa							0.15				0.15
Shrimps, small, non comm.							0.14				0.14
Malacocephalus occidentalis							0.12				0.12
GALATHEIDAE							0.10				0.10
MUKAENESOCIDAE							0.06				0.06
Caridea							0.04				0.04
Other fish							0.22				0.22
Sum all species							1.47				1.47
Sum Snappers											
Sum Groupers											
Sum Grunts											
Sum Croakers											
Sum Seabreams											
Sum Sharks											
Sum Rays											
Sum Squids											
Sum											
Sum shrimps (excl. SHKHAU)							0.27				0.27
Number of stations included in analysis, total and by depth strata							1				1

SHEPI AREA ANALYSIS FROM STATION 45THROUGH STATION 1003
 GUIANA SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 2 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/m ³	mean densities by bottom depth strata t/m ³			
	<10	10-30	30-100	100-300	300-1000			>1000	- 5m	50-120m	120-200m	200-201
Macrondon ancylodon	27	16	7		2		28	0.69	0.89	0.18	
Rhomboplites aurorubens	38	7	2			1	31	0.55	0.61	0.41	
Irichiurus lepturus	46	10	5				37	0.38	0.52		
Lutjanus purpureus	51	4	1		1		35	0.33	0.33	0.31	
Lynoscion virescens	20	7	2		1		18	0.25	0.34		
Isopisthus parvipinnis	25	3	1		1		19	0.23	0.29	0.05	
Scomberomorus brasiliensis	46	4	1		1		33	0.21	0.29	0.01	
Sphyraena quachancho	41	4	3				31	0.17	0.22	0.03	
Scomberomorus cavalla	50	5					34	0.16	0.18	0.12	
Nematopalaemon schmitti	6	2	1		1		7	0.14	0.19		
Xiphopenaeus kroyeri	24	3	1				18	0.14	0.29		
Lynoscion jamaicensis	30	3	3				24	0.14	0.19	0.03	
Micropogonias turneri	42	1	1				27	0.12	0.17		
Chaetopterus raber	25	3	2				20	0.12	0.16		
Peprilus paru	60	3					40	0.11	0.12	0.06	
Lynoscion acoupa	14	1	1				10	0.11	0.07	0.23	
Loligo piei	53	1	1				35	0.10	0.11	0.06	
Upeneus parvus	52	4					37	0.10	0.08	0.16	
Eucinostomus argenteus	43	3					29	0.10	0.12	0.05	
Knizoprionodon porosus	32	4					24	0.09	0.10	0.05	
Pristigaster macrophthalmus	32	3					22	0.09	0.02	0.28	
Stellifer sp	18	6					14	0.08	0.10		
Oxyatis geijskesi	4	3	1				5	0.08	0.12		
Haemulon melanurum	3		1				3	0.08	0.09	0.03	
Lutjanus synagris	51	2					35	0.08	0.10	0.03	
Priacanthus arenatus	48	3					33	0.07	0.04	0.16	
Haemulon steindachneri	22	1	1				16	0.07	0.09	0.02	
Haemulon aurolineatum	15	2	1				11	0.07	0.10	0.01	
Bagre bagre	32	1					21	0.07	0.09		
Sphyraena picudilla	17	4					14	0.06	0.05	0.06	
Lynoscion sp	7	1	1				6	0.06	0.02	0.16	
Ctenosciaena gracilicirrata	11	1	1				8	0.06	0.08		
Diapterus rhombus	14	2	1				11	0.06	0.08		
Arius grandicaudis	16	3					12	0.06	0.09		
Penaeus subtilis	50						33	0.03	0.03	0.04	
Shrimps, larvae		1					1	0.02	0.02		
Penaeus brasiliensis	30						20	0.01	0.01	0.01	
Penaeus notialis	29						19	0.01	0.01	0.01	
SULMONOCEPHALIDAE	1						1				
Penaeus schmitti	18						12				
Shrimps, small, non comm.	5						3		0.01		
S H R I H P S	1						1		0.01		
Other fish								1.09	1.26	0.85	
Sum all species								6.39	7.60	3.41	
Sum Snappers								1.10	1.10	1.10	
Sum Groupers								0.05	0.05	0.08	
Sum Grunts								0.31	0.41	0.12	
Sum Croakers								1.98	2.46	0.69	
Sum Seabreams								0.01	0.01	0.02	
Sum Sharks								0.18	0.21	0.15	
Sum Rays								0.21	0.29		
Sum Squids								0.12	0.13	0.09	
Sum											
Sum shrimps (excl. SHRIMP)								0.35	0.47	0.06	
Number of stations included in analysis, total and by depth strata								153	111	42	

SNEPI AREA ANALYSIS FROM STATION 9531/KROUGH STATION 1003
 GUIANA SHELF, FROTH SURVEY

SPECIES NAME	LATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/m ³	Mean densities by bottom depth strata t/m ³			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Macrrodon ancylooon	6	4	2	1		27	0.67	0.86			
Trichiurus lepturus	13	6	2			38	0.60	0.77			
Scomberomorus brasiliensis	20	3	1			51	0.35	0.45			
Lutjanus synagris	23	1		1		53	0.34	0.41	0.10		
Cynoscion virescens	10	3	1			24	0.27	0.35			
Loligo plei	31		1			67	0.26	0.28	0.18		
Sphyræna guachancno	11	1	2			31	0.25	0.32	0.03		
Isopisthus parvipinnis	9	1	1			20	0.25	0.33			
Oasyatis guttata	5	3	1			20	0.25	0.32			
Orthopristis ruber	3		1			9	0.22	0.28			
Khombopites aurorubens	11	2	1			31	0.21	0.02	0.86		
Upeneus parvus	16	3				42	0.19	0.14	0.39		
Rhizoprionodon porosus	11	3				31	0.18	0.23	0.03		
Ctenosciaena gracilicirrus	7		1			16	0.16	0.21			
Scomberomorus cavalla	20	1				38	0.14	0.16	0.09		
Haemulon aurolineatum	5		1			13	0.14	0.17	0.05		
Chaetodipterus faber	9	3				27	0.14	0.14			
Pristigaster macropthalmus	11	1				27	0.13	0.02	0.53		
Lutjanus purpureus	15	1				33	0.13	0.03	0.50		
Henrius paru	16	1				36	0.12	0.15	0.02		
Eucinostomus argenteus	18					36	0.12	0.10	0.18		
Priacanthus arenatus	12	1				29	0.11	0.07	0.24		
Pomadasys corvinaeformis	1		1			4	0.10	0.13			
Micropogonias turneri	12					27	0.09	0.12			
Bagre bagre	7	1				18	0.09	0.11			
Arius grandicaesis	5	1				13	0.09	0.12			
Cynoscion jamaicensis	6	1				16	0.08	0.10			
Sphyræna picudilla	4	1				11	0.07	0.09	0.02		
Stellifer microps	8					18	0.07	0.10			
Cynoscion steindachneri	1	1				4	0.07	0.09			
Cynoscion acoupa	4	1				11	0.07	0.09			
Xiphopenaeus kroyeri	7					16	0.06	0.07			
Rhinoptera bonasus	3	1				9	0.06	0.08			
Haemulon melanurum	3					7	0.05	0.03	0.11		
Penaeus subtilis	10					22	0.01	0.01			
Neatopalaemon schmitti	3					7					
Penaeus schmitti	6					13					
Penaeus brasiliensis	6					13			0.01		
Penaeus notialis	6					13		0.01			
Shrimps, small, non comm.	1					2					
Other fish							0.85	0.80	1.03		
Sum all species							6.99	7.80	4.37		
Sum Snappers							0.85	0.49	2.13		
Sum Groupers							0.04	0.05	0.02		
Sum Brunts							0.62	0.69	0.41		
Sum Croakers							1.89	2.46			
Sum Seabreams							0.01		0.05		
Sum Sharks							0.25	0.30	0.03		
Sum Rays							0.39	0.44			
Sum Squids							0.27	0.31	0.18		
Sum											
Sum shrimps (excl. SHKAA01)							0.07	0.09	0.01		
Number of stations included in analysis, total and by depth strata							45	35	10		

SWEPT AREA ANALYSIS FROM STATION 87THROUGH STATION 102
ORINOCO SHELF, FIRST SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/MH GROUPS						% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Trichurus lepturus	4	5	2				83	1.72	2.84	0.59		
Macrurus ancylodon	6	4	1				67	0.97	1.58	0.35		
Cynoscion virescens	4	3	1				67	0.90	1.55	0.24		
Isopisthus parvipinnis	9	1					67	0.53	0.86	0.19		
Arius grandicassis	8						67	0.29	0.47	0.11		
Bagre bagre	6						50	0.25	0.50	0.01		
Xiphopenaeus kroyeri	6	1					50	0.22	0.44			
Ctenosciaena oracilicirrhus	5						42	0.22		0.43		
Stellifer griseus	1	1					17	0.19	0.38			
Cynoscion acoupa	6						50	0.18	0.13	0.23		
Peprius paru	9	1					58	0.16	0.30	0.02		
Stellifer sp	2	1					17	0.12	0.24			
Micropogonias furnieri	3						25	0.12	0.24			
Cynoscion steindachneri	4						33	0.12	0.01	0.23		
Cynoscion nothus	3						25	0.12		0.24		
Penaeus notialis	3						17	0.10		0.20		
Cynoscion sp	3						17	0.08		0.16		
Arius quadriscutis	3						17	0.08	0.17			
Penaeus subtilis	8						67	0.07	0.02	0.12		
Panatomus saltatrix	4						33	0.07	0.12	0.03		
Bagre marinus	3						25	0.07	0.13			
Rhizoprionodon porosus	7						58	0.06	0.08	0.04		
Nebris microps	3						25	0.06	0.13			
Larimus breviceps	2						17	0.06	0.12			
SCIAENIDAE	2						17	0.06	0.01	0.11		
Rhinoptera bonasus	3						17	0.06	0.12			
Centroponus parallelus	2						17	0.06	0.12			
Penaeus schmitti	5						42	0.02	0.03			
Nematopalaemon schmitti	2						17	0.01		0.01		
Shrimps, small, non comm.	1						8	0.01		0.02		
Penaeus brasiliensis	1						8					
Shrimps, larvae	1						8					
Other fish								0.75	1.02	0.66		
Sum all species								7.71	11.61	3.99		
Sum Snappers								0.08	0.06	0.12		
Sum Groupers									0.01			
Sum Grunts								0.05	0.13	0.01		
Sum Croakers								3.84	5.43	2.24		
Sum Seabreams												
Sum Sharks								0.18	0.27	0.12		
Sum Rays								0.11	0.23			
Sum Squids										0.01		
Sum												
Sum shrimps (excl. SHRAA01)								0.42	0.49	0.33		
Number of stations included in analysis, total and by depth strata								12	6	6		

SWEPT AREA ANALYSIS FROM STATION 378THROUGH STATION 407
ORINOCO SHELF, SECOND SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	7	2	3			52	1.05	2.00	0.01		
Macraon ancylodon	5			1		29	0.67	1.28			
Cynoscion jamaicensis	9	2	1			52	0.65	0.87	0.40		
Pristipomoides macrophthalmus	4	3	1			38	0.57		1.20		
Peprilus paru	12	4				71	0.41	0.64	0.16		
Cynoscion virescens	4	1				24	0.22	0.41			
Scorpaenopsis brasiliensis	7	2				43	0.21	0.38	0.02		
Stellifer sp	2		1			14	0.21	0.40			
Chaetodipterus faber	1		1			10	0.21	0.39			
Uasyatis sp			1			5	0.19		0.40		
Arius grandicassis	1	2				14	0.18	0.34			
Xiphopenaeus kroyeri	2	1				14	0.15	0.29			
Mustelus higmani	6	1				33	0.15	0.26	0.03		
Rhizoprionodon porosus	7	1				38	0.15	0.27	0.02		
Prionotus stearnsi	2	1				14	0.14		0.30		
Saurida sp	4	1				24	0.14		0.28		
Bagre sp.	1	1				10	0.14	0.27			
Micropogonias furnieri	3	1				14	0.12	0.23			
Sphyræna picudilla	7	1				38	0.11	0.19	0.02		
Isopisthus parvipinnis	6	1				33	0.11	0.20	0.01		
Upeneus parvus	9					38	0.11		0.22		
CRABS	4	1				24	0.10		0.21		
Arius quadriscutis	3					14	0.10	0.19			
Uasyatis geijskesi		1				5	0.08	0.15			
Sphyræna guachancno	6					24	0.07	0.13	0.02		
Mustelus canis	1	1				10	0.07	0.13			
Scorpaenopsis cavalla	3					14	0.07	0.14			
Cynoscion acoupa	1	1				5	0.07	0.13			
Nematopalaemon schmitti	2					10	0.05	0.10			
Uphidion sp.	3					14	0.05		0.11		
Rhomboplites aurorubens	6					29	0.05		0.10		
Penaeus notialis	8					38	0.04		0.09		
Shrimps, small, non comm.	3					14	0.03		0.05		
Penaeus brasiliensis	7					33	0.02		0.05		
Penaeus subtilis	10					48	0.01	0.01	0.01		
S H K I N P S	1					5	0.01		0.02		
Penaeus schmitti	3					14					
Other fish							0.84	0.77	0.95		
Sum all species							7.55	10.17	4.63		
Sum Snappers							0.64		1.33		
Sum Groupers							0.04		0.08		
Sum Grunts							0.03	0.03	0.04		
Sum Croakers							2.15	3.71	0.41		
Sum Seabreams									0.01		
Sum Sharks							0.48	0.86	0.05		
Sum Rays							0.27	0.15	0.40		
Sum Squids							0.08	0.05	0.09		
Sum											
Sum shrimps (excl. SHKAA01)							0.28	0.40	0.17		
Number of stations included in analysis, total and by depth strata							21	11	10		

SWEPT AREA ANALYSIS FROM STATION 678 THROUGH STATION 695
ORINOCO SHELF, THIRD SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/mm ²	Mean densities by bottom depth strata t/mm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Ctenoscoela gracilicirrus</i>	9	1				64	0.43	0.67	0.11		
<i>Lynoscion jamaicensis</i>	12	1				79	0.39	0.57	0.14		
<i>irichirus lepturus</i>	9	1				71	0.29	0.33	0.25		
<i>knowoplites aurorubens</i>	2					14	0.08		0.20		
<i>Sauritoa normani</i>	4					29	0.07		0.15		
<i>Upeneus parvus</i>	5					36	0.07		0.17		
<i>Microponias furnieri</i>	3					21	0.06	0.19			
<i>Lepophidium profundorum</i>	7					50	0.06	0.04	0.08		
<i>Penaeus subtilis</i>	6					43	0.05	0.03	0.09		
<i>Scomberomorus cavalla</i>	5					36	0.05	0.02	0.07		
<i>Pristipomoides macrophtalmus</i>	1					7	0.05		0.11		
<i>Penaeus notialis</i>	5					36	0.02		0.04		
<i>Solenocera</i> sp	1						0.01		0.01		
<i>Penaeus brasiliensis</i>	1					7			0.01		
Other fish							0.45	0.30	0.70		
Sum all species							2.08	2.06	2.12		
Sum Snappers							0.18		0.44		
Sum Groupers							0.02		0.04		
Sum Grunts							0.02	0.01	0.03		
Sum Croakers							0.90	1.39	0.25		
Sum Seabreams											
Sum Sharks							0.05	0.02	0.09		
Sum Rays											
Sum Squids							0.02		0.05		
Sum											
Sum shrimps (excl. SHRRA01)							0.08	0.03	0.14		
Number of stations included in analysis, total and by depth strata							14	8	6		

SWEPT AREA ANALYSIS FROM STATION 100 THROUGH STATION 1019
ORINOCO SHELF, FOURTH SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					X inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Macracoel ancylodon		1	1	1		15	1.41	3.06			
Peprius paru	5	1	1			54	0.54	1.15	0.02		
Rhinoptera bonasus			1			8	0.33	0.71			
Trichiurus lepturus	6	2				62	0.28	0.59	0.01		
Scomberomorus brasiliensis	3	1				31	0.26	0.57			
Lynoscion jamaicensis	2		1			23	0.25	0.54			
Sphyræna guachancho	7	1				46	0.24	0.47	0.04		
Lynoscion virescens	5	1				38	0.24	0.53			
Rhizoprionodon porosus	6	1				54	0.23	0.48	0.02		
Isopisthus parvipinnis	2	1				23	0.22	0.48			
Pomatomus saltatrix	6					46	0.19	0.41			
Pristigaster macropthalma	4					31	0.19		0.36		
Lepophidium profundum	4					31	0.15		0.28		
Oxyatis geijskesi		1				8	0.14	0.31			
Bagre bagre	3	1				31	0.14	0.30			
Arius grandicassis	3	1				23	0.14	0.29			
Knoblochites aurorubens	3	1				31	0.13		0.24		
Chaetodipterus fader	2	1				23	0.13	0.29			
Elops saurus	2					15	0.12	0.25			
Microgogonias furnieri	4					31	0.11	0.25			
Lutjanus purpureus	5					38	0.08	0.06	0.09		
Saurida normani	5					38	0.07		0.12		
Xiphopenaeus kroyeri	3					23	0.07	0.12			
Penaeus notialis	7					46	0.07		0.14		
Bagre marinus	6					38	0.07	0.16			
Mustelus nigmani	9					69	0.06	0.06	0.06		
Trachypenaeus sp	1					8	0.05		0.09		
Stellifer microps	3					23	0.05	0.12			
Nebris microps	2					15	0.05	0.11			
Lynoscion acoupa	4					31	0.05	0.08	0.02		
Upeneus parvus	6					46	0.05		0.10		
Shrimps, small, non comm.	1					8	0.03	0.07			
Trachypenaeus similis	2					15	0.01		0.01		
Penaeus schmitti	3					23	0.01	0.03			
Penaeus subtilis	5					38	0.01		0.02		
Penaeus brasiliensis	3					23			0.01		
Plesionika sp	1					8					
Other fish							0.84	0.82	0.86		
Sum all species							7.01	12.31	2.52		
Sum Snappers							0.41	0.07	0.71		
Sum Groupers							0.05		0.09		
Sum Grunts							0.04	0.06	0.03		
Sum Croakers							2.49	5.42	0.03		
Sum Seabreams											
Sum Sharks							0.35	0.67	0.08		
Sum Rays							0.50	1.04	0.03		
Sum Squids							0.07	0.07	0.07		
Sum											
Sum shrimps (excl. SHRAA01)							0.22	0.15	0.30		
NUMBER of stations included in analysis, total and by depth strata							13	6	1		

SWEPT AREA ANALYSIS FROM STATION 87 THROUGH STATION 1019
ORINOCO SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 3 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS						% incidence	mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	26	10	5				65	0.84	1.46	0.13		
Macraron ancylodon	12	5	2		2		30	0.74	1.35	0.07		
Cynoscion jamaicensis	23	3	2				42	0.37	0.56	0.17		
Cynoscion virescens	15	5	1				33	0.31	0.56	0.05		
Peprius paru	32	6	1				58	0.30	0.51	0.07		
Pristipomoides macrophthalmus	9	3	1				22	0.25		0.52		
Isopisthus parvipinnis	17	3					30	0.19	0.33	0.04		
Ltenosciaena gracilicirrus	18	1					30	0.15	0.19	0.11		
Arius grandicassis	12	3					23	0.15	0.27	0.02		
Scomberomorus brasiliensis	12	3					25	0.14	0.27	0.01		
Rhizoprionodon porosus	22	2					40	0.12	0.21	0.02		
Xiphopenaeus kroyeri	11	2					20	0.11	0.21	0.01		
Chaetodipterus faber	6	1	1				13	0.11	0.21			
Stellifer sp	4	1	1				10	0.10	0.19			
Micropogonias furnieri	13	1					22	0.10	0.20			
Sphyræna guacianche	17	1					25	0.09	0.14	0.03		
Bagre bagre	14	1					23	0.09	0.17			
Mustelus higmani	20	1					35	0.08	0.11	0.04		
Khinoptera bonasus	3		1				5	0.08	0.16			
Cynoscion acoupa	11	1					20	0.07	0.09	0.05		
Uasyatis sp	1		1				3	0.07		0.14		
Pomatomus saltatrix	11						18	0.07	0.12	0.01		
Upeneus parvus	21						35	0.07		0.14		
Rhombolites aurorubens	12	1					22	0.07		0.14		
Prionotus stearnsi	7	1					13	0.06		0.12		
Uasyatis gellskesi			2				3	0.06	0.11			
Saurida sp	9	1					17	0.05		0.19		
Sphyræna micudilla	13	1					23	0.05	0.07	0.03		
Penaeus notialis	23						35	0.05		0.11		
Scomberomorus cavalla	13						20	0.05	0.08	0.02		
Lepophidium profundorum	11						18	0.05	0.01	0.09		
Bagre sp.	2	1					5	0.05	0.10			
Arius quadriscutis	7						10	0.05	0.19			
Penaeus subtilis	29						48	0.03	0.02	0.02		
Nematopalaemon schmitti	9						7	0.02	0.04			
Shrimps, small, non comm.	5						8	0.02	0.01	0.02		
Trachypenaeus sp	1						2	0.01		0.02		
Penaeus schmitti	11						18	0.01	0.01			
Penaeus brasiliensis	12						20	0.01		0.02		
Solenocera sp	1						2					
Trachypenaeus similis	2						3					
Plesionika sp	1						2					
Shrimps, larvae	1						2					
S H R I M P S	1						2			0.01		
Other fish								0.95	0.85	0.97		
Sum all species								6.19	8.71	3.38		
Sum Snappers								0.37	0.02	0.74		
Sum Groupers								0.03		0.06		
Sum Grunts								0.03	0.04	0.02		
Sum Croakers								2.26	3.76	0.65		
Sum Seabreams												
Sum Sharks								0.30	0.50	0.07		
Sum Rays								0.22	0.29	0.15		
Sum Squids								0.06	0.02	0.06		
Sum												
Sum shrimps (excl. SHRAA01)								0.24	0.28	0.22		
Number of stations included in analysis, total and by depth strata								60	31	29		

SWEEP AREA ANALYSIS FROM STATION 8714KROUGH STATION 1019
 OKINOCO SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 3 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% Inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000			>1000	200-300m	300-400m	400-500m	500-800
Miscellaneous fish	9					60	0.20		0.12	0.07	0.31
Synagrops bellus	7					47	0.13	0.16	0.14	0.20	0.09
Epigonus sp		1					0.12				0.23
ISOPONS	8					53	0.10		0.07	0.26	0.08
Parasudis triculentus	5					33	0.10	0.11	0.26	0.24	
Illex illecebrosus	7					47	0.08	0.31	0.03	0.17	
Bathynomus giganteus	4					27	0.07			0.18	0.06
Epigonus macrops	7					47	0.07			0.14	0.08
Pholidoteuthis adami	2					13	0.06				0.12
SOLENUCERIDAE	8					53	0.06	0.01	0.11	0.13	0.03
Plesionopaeus edwardsianus	11					73	0.06			0.01	0.12
Coelorincus sp	2					13	0.06				0.11
Pristipomoides macrophthalmus	1					7	0.05	0.34			
Shrimps, small, non comm.	2					13	0.03				0.06
UPLOPHORIDAE	2					13	0.02				0.03
Glyptocheilichthys sp	5					33	0.02			0.02	0.04
PANDALIDAE	5					33	0.01		0.01		0.01
Acanthephyra eximia	2					13	0.01				0.02
Acanthephyra armata	2					13	0.01				0.02
Penaeus carinatus rotundus	2					7	0.01				0.02
Solenocera sp	1					7					
Penaeopsis serrata	1					7					
PENAEIDAE	1					7					
Plesionika sp	2					13					
Gnathophausia ingens	1					7					
KIPKULYIDAE	3					20				0.01	
Aristeus antillensis	1					7					
Aristeus varians	1					7					
Aristeus sp	1					7					
Other fish							0.80	0.74	0.45	0.67	1.86
Sum all species							2.07	1.67	1.19	2.10	2.49
Sum Snappers							0.05	0.34			
Sum Groupers								0.01			
Sum Grunts											
Sum Croakers											
Sum Seabreams											
Sum Sharks							0.04	0.15	0.01	0.07	0.02
Sum Rays									0.04	0.03	
Sum Squids							0.21	0.32	0.06	0.20	0.25
Sum											
Sum SHRIMPS (excl. SMKARU)							0.20	0.01	0.12	0.17	0.29
NUMBER OF STATIONS INCLUDED IN ANALYSIS, total and by depth strata							15	2	2	3	8

SWEPT AREA ANALYSIS FROM STATION 103THROUGH STATION 1077
 TRINIDAD NORTH COAST SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

THE ANALYSIS HAVE BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1130 SOUTHERN: 1005
 WESTERN : -6200EASTERN: -6100

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Cynoscion jamaicensis	9	3	4		1	70	2.85	0.60	6.49		
Ctenosciaena gracilicirrus	5	1	2	2		43	1.87	0.17	4.57		
Trichiurus lepturus	15	1	3			83	0.95	0.76	1.41		
Mustelus canis	5		3			35	0.68	0.04	1.69		
Microdonomus turneri	6	4	1			48	0.62	1.07	0.15		
MYSTICOPHORUS BICOLORATUS	4	3	1			57	0.42		0.50	2.51	
Peprius paru	11	2	1			61	0.41	0.60	0.23		
Sphyræna quechanche	4	4				35	0.33	0.60	0.04		
Priacanthus arenatus	6	1	1			35	0.29	0.01	0.74		
Prionotus punctatus	9	2				48	0.25	0.29	0.24		
Lutjanus purpureus	14	1				61	0.22	0.25	0.22		
Synodus paevi	3		1			17	0.21		0.53		
Rhizoprionodon taylori	4		1			22	0.19	0.05	0.43		
Halargyreus gryllus			1			4	0.19		0.47		
Rhomboplites aurorobens	11	1				52	0.15	0.03	0.33		
Sphyræna picudilla	8	1				39	0.12	0.15	0.10		
Scomberomorus cavalla	9	1				43	0.12	0.20	0.05		
Rhizoprionodon porosus	10					43	0.09	0.13	0.06		
Pomatomus saltatrix	5					22	0.09	0.01	0.22		
Lepopidium profundorum	5					22	0.09	0.13	0.05		
Pronotargus eos		1				4	0.08			0.90	
Lutjanus cyanopterus		1				4	0.08		0.20		
Loligo Pealei	10					43	0.07	0.04	0.10	0.16	
Stellifer griseus		1				4	0.07	0.12			
Lutjanus synagris	7					30	0.07	0.13	0.01		
Stellifer microps		1				4	0.06	0.12			
Cynoscion steindachneri		1				4	0.06		0.16		
Eucinostomus gula	4	1				22	0.06	0.11			
Mustelus nigmani	11					48	0.05	0.08	0.02		
Isopisthus parvipinnis	2					9	0.05	0.09			
Cynoscion similis	4					17	0.05	0.02	0.19		
Upeneus parvus	15					65	0.05	0.02	0.09	0.01	
Paralichthys tetraodon		1				4	0.05		0.13		
Forichthys pauciradiatus	6					26	0.05	0.03	0.01		
Bagre marinus	4					17	0.05	0.07	0.02		
Xiphopenaeus kroyeri	2					9	0.03	0.01	0.05		
Penaeus subtilis	7					30	0.03	0.06	0.01		
Parapenaeus ionirostris	1					4	0.03	0.06			
Trachypenaeus similis	1					4	0.01	0.01			
Penaeus schmitti	4					17	0.01	0.01			
Penaeus brasiliensis	6					26	0.01	0.01	0.01		
Penaeus notialis	4					17	0.01	0.02	0.01		
Trachypenaeus sp	3					13					
Other fish							0.73	0.68	0.89	0.18	
Sum all species							11.90	6.84	20.33	3.78	
Sum Shoppers							0.95	0.42	1.26	2.51	
Sum Ursupers							0.12	0.02	0.07	0.91	
Sum Grunts							0.03	0.05	0.01		
Sum Croakers							5.93	2.28	12.03		
Sum Seabreams							0.01		0.02		
Sum Sharks							1.06	0.36	2.24		
Sum Rays							0.05	0.10			
Sum Squids							0.08	0.05	0.10	0.16	
Sum											
Sum shrimps (excl. SHRAB01)							0.13	0.18	0.08		
Number of stations included in analysis, total and by depth strata							23	12	9	2	

SWEPT AREA ANALYSIS FROM STATION 408 THROUGH STATION 454
JOINT FISHING ZONE, SECOND SURVEY

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

THE ANALYSIS HAVE BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1009 SOUTHERN: 930
WESTERN : -6200 EASTERN: -6057

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/MH GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	9	3	2	1		88	3.12	3.69	0.63		
Cynoscion jamaicensis	3	6	2	1		63	2.19	2.31	1.66		
Scomberomorus cavalla	1		1	1		19	1.19	1.46			
Ctenosciaena gracilicirrhus	4	2	1	1		50	1.17	0.57	3.74		
Macrodon ancylodon	3	1		1		31	1.00	1.15	0.33		
Micropogonias turneri	4	3	1			50	0.86	1.02	0.17		
Diapterus rhombeus	7		1			50	0.67	0.83	0.01		
Lutjanus synagris	7	3				56	0.47	0.56	0.09		
Mustelus higmani	2	1	1			25	0.31	0.35	0.15		
Bagre marinus	8					44	0.17	0.18	0.12		
Eucinostomus argenteus	6	1				44	0.16	0.20			
Sphyrna tiburo	2	1				19	0.15	0.19			
Heterobatus narinar	1	1				13	0.15	0.18			
Haemulon steindachneri	2	1				19	0.15	0.14	0.19		
Cynoscion steindachneri	4					25	0.13	0.12	0.17		
Uphioscion panamensis	2					13	0.11	0.13			
Peprilus paru	9					56	0.10	0.11	0.03		
Hirius grandicaesis	1	1				13	0.09	0.11			
Penaeus subtilis	5					31	0.08	0.09	0.02		
Polydactylus virginicus	4					25	0.07	0.09			
Lutjanus purpureus	6					31	0.07	0.09			
Scomberomorus brasiliensis	3					19	0.06	0.07			
Synodus poeyi	7					44	0.05	0.06			
Cynoscion virescens	3					19	0.05	0.06			
Urolophidion ruber	1					6	0.05	0.06			
Penaeus brasiliensis	10					63	0.03	0.03			
Penaeus notialis	10					63	0.02	0.02	0.02		
Trachypenaeus sp.	2					13	0.01	0.01			
Nematopalaemon schmitti	1										
Penaeus schmitti	2					13					
Sicyonia sp.	1					6					
Other fish							0.57	0.61	0.34		
Sum all species							13.25	14.49	7.67		
Sum Snappers							0.54	0.66	0.09		
Sum Groupers							0.01	0.01			
Sum Grunts							0.22	0.21	0.26		
Sum Croakers							5.65	5.54	6.07		
Sum Seabreams											
Sum Sharks							0.47	0.55	0.15		
Sum Rays							0.15	0.18			
Sum Squids							0.04	0.04			
Sum											
Sum shrimps (excl. SHRAB01)							0.14	0.15	0.04		
Number of stations included in analysis, total and by depth strata							16	13	3		

SWEPT AREA ANALYSIS FROM STATION 696 THROUGH STATION 734
 Joint fishing zone, third survey

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

THE ANALYSIS HAS BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1009 SOUTHERN: 930
 WESTERN : -6200 EASTERN: -6057

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% incidence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Rhinoptera bonasus						1	2.18	2.62			
Cynoscion jamaicensis	3	5	5			72	2.07	2.32	0.85		
Trichiurus lepturus	5	9	2			89	1.31	1.34	1.11		
Micropogonias turneri	12	6				83	0.71	0.68	0.87		
Otenoschiaena gracilicirrus	8	3				61	0.56	0.52	0.77		
Epinephelus itajara			1			6	0.30	0.36			
Chaetodipterus fader	2	2				22	0.27	0.32			
Mustelus nigmani	8					39	0.17	0.13	0.36		
Macraron ancylodon	5	1				28	0.17	0.15	0.26		
Lutjanus synagris	9					44	0.15	0.18	0.02		
Peprius paru	8					44	0.14	0.16	0.06		
Diapterus rhombeus	3	1				22	0.11	0.13			
Rhizoprionodon porosus	8					39	0.10	0.12			
Eucinostomus argenteus	6					33	0.10	0.12			
Penaeus subtilis	8					44	0.09	0.07	0.16		
Cynoscion similis	4					22	0.08	0.09	0.02		
Bagre marinus	6					28	0.08	0.06	0.15		
Loligo pealei	7					39	0.05	0.06			
Sphyrna lewini	2					11	0.05	0.05	0.04		
Fomatonus saltatrix	5					28	0.05	0.06			
Bagre bagre	3					17	0.05	0.06			
Penaeus brasiliensis	8					44	0.04	0.04			
Penaeus notialis	8					44	0.04	0.05			
Xiphopenaeus kroyeri	3					17	0.02	0.02			
Trachypenaeus sp	3					17	0.01		0.02		
Nematopalaemon schmitti	1										
Sicyonia sp.	1					6					
Other fish							0.45	0.45	0.36		
Sum all species							9.35	10.16	5.05		
Sum Snappers							0.17	0.21	0.02		
Sum Groupers							0.34	0.41			
Sum Grunts							0.01		0.09		
Sum Croakers							3.69	3.87	2.80		
Sum Seabreams											
Sum Sharks							0.35	0.34	0.40		
Sum Rays							2.20	2.64			
Sum Squids							0.05	0.06			
Sum											
Sum shrimps (excl. SHKAA01)							0.20	0.18	0.18		
Number of stations included in analysis, total and by depth strata							18	15	3		

SWEPT AREA ANALYSIS FROM STATION 1020 THROUGH STATION 1077
 Joint fishing zone, fourth survey

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

THE ANALYSIS HAVE BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1009 SOUTHERN: 930
 WESTERN : -6200 EASTERN: -6057

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/NM GROUPS					% inci- dence	Mean dens. t/nm ³	Mean densities by bottom depth strata t/nm ³			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Cynoscion jamaicensis	8	2	2		1	80	1.78	1.72	2.23		
Trichurus lepturus	11	7	1			100	1.47	1.53	1.08		
Micropogonias furnieri	10	1	1			73	0.67	0.78			
Ctenosciaena gracilicirrhus	5	2	1			53	0.64	0.46	1.81		
Bagre marinus	11	1				73	0.42	0.38	0.68		
Macraron ancylodon	3	2				27	0.29	0.34			
Scomeromorus brasiliensis	4		1			33	0.28	0.32			
Penaeus subtilis	7	1				53	0.25	0.27	0.09		
Lutjanus synagris	8	1				60	0.25	0.24	0.29		
Chaetodipterus faber	6	1				47	0.22	0.26			
Isopisthus parvipinnis	4	1				33	0.18	0.20			
Peprilus paru	8					53	0.15	0.13	0.24		
Stellifer griseus	2	1				20	0.15	0.13			
Eucinostomus argenteus	5	1				40	0.14	0.16	0.03		
Penaeus notialis	5	1				40	0.13	0.15			
Ucayatis guttata	1	1				13	0.12	0.13			
Pomadourus croceus		1				7	0.12		0.93		
Eugerres plumieri		1					0.12	0.14			
Cynoscion similis	1	1				13	0.11	0.09	0.25		
Cynoscion virescens	9					60	0.10	0.09	0.16		
Pomatomus saltatrix	10					67	0.10	0.10	0.13		
Chizoprinodon lalandii	8					53	0.09	0.10	0.04		
Aetodatus narinari	3					20	0.08	0.09			
Sphyrna quachancho	3					20	0.07	0.08			
Diapterus olisthostomus	2					13	0.07	0.03			
Leiigo sp	3					20	0.06	0.07			
Sciaenidae juveniles	1					7	0.06	0.07			
Symphurus plagiata	4					27	0.06	0.06			
Synodus foetens	3					20	0.05	0.06			
Arius grandicassis	2					13	0.05	0.06			
Xiphopenaeus kroyeri	2					13	0.04	0.04			
Trachypenaeus similis	2					13	0.01	0.02			
Penaeus schmitti	1					7	0.01	0.02			
Trachypenaeus sp	2					13					
Penaeus brasiliensis	3					20					
Other fish							0.67	0.73	0.19		
Sum all species							9.01	9.15	8.15		
Sum Snappers							0.29	0.27	0.38		
Sum Groupers							0.03	0.03			
Sum Grunts							0.15	0.03	0.93		
Sum Croakers							4.17	4.16	4.47		
Sum Sea breams											
Sum Sharks							0.22	0.24	0.04		
Sum Rays							0.26	0.29	0.03		
Sum Squids							0.10	0.10	0.05		
Sum											
Sum shrimps (exc). SHRAA01							0.44	0.50	0.09		
Number of stations included in analysis, total and by depth strata							15	13	2		

SWEPT AREA ANALYSIS FROM STATION 408 THROUGH STATION 1077
 Joint fishing zone, three surveys

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

THE ANALYSIS HAS BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1009 SOUTHERN: 930
 WESTERN : -6200 EASTERN: -6057

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% incidence	mean dens. t/na ¹	Mean densities by bottom depth strata t/na ¹			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Cynoscion jamaicensis	14	13	9	2		71	2.02	2.12	1.50		
Trichiurus lepturus	25	19	5	1		92	1.95	2.15	0.92		
Rhinoptera bonasus	1				1	4	0.81	0.97			
Ctenosciæna gracilicirrus	17	7	2	1		55	0.78	0.52	2.14		
Micropogonias turneri	26	10	2			69	0.75	0.82	0.39		
Macræon ancylodon	11	4		1		29	0.48	0.52	0.22		
Scomberomorus cavalla	5		1	1		14	0.41	0.48			
Lutjanus synagris	24	4				53	0.29	0.32	0.12		
Diapterus rhombeus	11	1	1			27	0.26	0.31			
Scorpaenopsis diabolus	25	1				47	0.21	0.20	0.27		
Chaetodipterus tader	12	3				31	0.18	0.21			
Mustelus nigmani	15	1	1			33	0.17	0.17	0.19		
Peprius paru	25					51	0.13	0.14	0.09		
Penaeus subtilis	20	1				43	0.13	0.14	0.09		
Eucinostomus argenteus	17	2				39	0.13	0.16	0.01		
Epinephelus itajara			1			2	0.11	0.13			
Scomberomorus brasiliensis	7		1			16	0.11	0.13			
Cynoscion similis	7	1				16	0.07	0.07	0.07		
Aetobatus narinari	4	1				10	0.07	0.07			
Penaeus notialis	23	1				49	0.06	0.07	0.01		
Sphyrna tiburo	3	1				8	0.06	0.07			
Isopisthus parvipinnis	5	1				12	0.06	0.08			
Cynoscion virescens	10					29	0.06	0.06	0.04		
Foanotus saltatrix	17					35	0.06	0.06	0.03		
Stellifer griseus	2	1				6	0.05	0.06			
Haemulon steindachneri	3	1				8	0.05	0.04	0.07		
Arius grandicassis	6	1				14	0.05	0.06			
Xiphopenaeus kroyeri	5					10	0.02	0.02			
Penaeus brasiliensis	21					43	0.02	0.03			
Trachypenaeus sp	7					14	0.01	0.01	0.01		
Penaeus schmitti	3					6	0.01	0.01			
Nematopalaemon schmitti	2					4					
Trachypenaeus similis	2					4		0.01			
Sicyonia sp.	2					4					
Other fish							0.95	1.00	0.63		
Sum all species							10.52	11.23	6.80		
Sum Snappers							0.33	0.37	0.14		
Sum Groupers							0.13	0.16			
Sum Grunts							0.13	0.07	0.36		
Sum Croakers							4.49	4.50	4.44		
Sum Seabreams											
Sum Sharks							0.35	0.37	0.22		
Sum Rays							0.73	1.11	0.01		
Sum Squids							0.07	0.07	0.01		
Sum											
Sum shrimp (excl. SIKKAPU)							0.25	0.29	0.11		
Number of stations included in analysis, total and by depth strata							49	41	3		



SWEPT AREA ANALYSIS FROM STATION 696 THROUGH STATION 734
TRINIDAD SHELF, THIRD SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS						% inci- dence	Mean dens. t/na ²	Mean densities by bottom depth strata t/na ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
<i>Cynoscion jamaicensis</i>	7	12	7				70	1.56	1.90	0.98		
<i>Knipoptera bonasus</i>					1		3	1.06	1.51			
<i>Trichiurus lepturus</i>	16	10	3				78	0.88	1.06	0.46		
<i>Microgogonias furnieri</i>	17	8	3				62	0.75	0.93	0.32		
<i>Bairdiella chrysoura</i>				2			5	0.58	0.83			
<i>Stellifer microps</i>			1	1			5	0.47	0.67			
<i>Ctenosciaena gracilicirrus</i>	14	6					54	0.46	0.47	0.44		
<i>Lutjanus synagris</i>	16	2					43	0.22	0.30	0.02		
<i>Rhizoprionodon porosus</i>	11		1				30	0.20	0.29	0.01		
<i>Arius</i> sp.	1		1				5	0.17	0.24			
<i>Mustelus nigmani</i>	16						41	0.16	0.14	0.29		
<i>Arius grandicaudus</i>	5		1				16	0.16	0.21	0.04		
<i>Peprilus paru</i>	26						54	0.15	0.14	0.19		
<i>Epinephelus itajara</i>			1				3	0.14	0.21			
<i>Eucinostomus argenteus</i>	15	1					43	0.14	0.13	0.16		
<i>Chaetodipterus faber</i>	2	2					11	0.13	0.19			
<i>Macraron ancylodon</i>	8	1					22	0.10	0.11	0.07		
<i>Cynoscion striatus</i>	6	1					19	0.09	0.08	0.11		
<i>Upeneus parvus</i>	7	1					22	0.09	0.03	0.21		
<i>Penaeus notialis</i>	16	1					46	0.07	0.03	0.14		
<i>Prionotus punctatus</i>	16						43	0.06	0.06	0.05		
<i>Larimus breviceps</i>	2	1					8	0.06	0.08			
<i>Isopisthus parvipinnis</i>	1	1					5	0.06	0.09			
<i>Diapterus rhombeus</i>	6	1					19	0.06	0.08			
<i>Penaeus subtilis</i>	16						43	0.05	0.05	0.05		
<i>Lynxion virescens</i>	7						19	0.05	0.07			
<i>Lynxion acoupa</i>	5						14	0.05	0.05	0.04		
<i>Lepopidium profundum</i>	9						24	0.05	0.03	0.09		
<i>Lepopidium</i> sp.	7						19	0.05	0.03	0.08		
<i>Bagre bagre</i>	5						14	0.05	0.07			
<i>Xiphopenaeus kroyeri</i>	6						16	0.03	0.03	0.01		
<i>Trachypenaeus</i> sp.	7						19	0.03	0.02	0.05		
<i>Penaeus brasiliensis</i>	14						38	0.03	0.03	0.05		
Shrimps, small, non comm.	2						5	0.02	0.03			
<i>Nematopalaemon schmitti</i>	1											
<i>Penaeus aztecus</i>	1						3					
<i>Penaeus schmitti</i>	2						3					
<i>Sicyonia</i> sp.	1						3					
S H R I M P S	2						3					
Other fish								0.71	0.55	1.19		
Sum all species								8.94	10.64	4.97		
Sum Snappers								0.31	0.32	0.25		
Sum Groupers								0.20	0.28	0.08		
Sum Grunts								0.10	0.07	0.14		
Sum Croakers								4.28	5.25	1.96		
Sum Sea breams								0.02		0.07		
Sum Sharks								0.46	0.49	0.22		
Sum Rays								1.08	1.52	0.06		
Sum Squids								0.04	0.04	0.05		
Sum												
Sum shrimps (excl. <i>Schmitti</i>)								0.21	0.15	0.31		
Number of stations included in analysis, total and by depth strata								37	25	17		

SWIFT AREA ANALYSIS FROM STATION 408 THROUGH STATION 454
 IRMIRIAH SHELF, SECOND SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ³ GROUPS						% inci- dence	mean dens. t/m ³	mean densities by bottom depth strata t/m ³			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
<i>Cynoscion jamaicensis</i>	9	8	10	1			63	2.09	2.47	1.96		
<i>Trichurus lepturus</i>	20	7	3	1			75	1.59	2.50	0.56		
<i>Utenosciaena gracilicirrus</i>	8	5	2	3			45	1.47	0.43	3.29		
<i>Scomberomorus cavalla</i>	5	1	1	1			20	0.55	0.95	0.07		
<i>Micropogonias furnieri</i>	7	5	1				33	0.46	0.78	0.10		
<i>Lutjanus synagris</i>	18	3	1				50	0.45	0.80	0.04		
<i>Diapterus rhombeus</i>	11	1	2				35	0.42	0.76			
<i>Macrodon ancylodon</i>	3	1		1			13	0.40	0.68	0.07		
<i>Mustelus canis</i>	2		3				13	0.39	0.02	0.99		
<i>Pristigaster macropthalmus</i>	5	4	1				25	0.27		0.28	2.10	
<i>Mustelus higmani</i>	5	3	1				23	0.20	0.33	0.04		
<i>Synodus paeys</i>	14		1				38	0.16	0.07	0.32		
<i>Peprius paru</i>	19	1					50	0.15	0.13	0.20		
<i>Prionotus punctatus</i>	18	2					50	0.14	0.13	0.19		
<i>Eucinostomus argenteus</i>	18	1					48	0.12	0.19	0.03		
<i>Knizoprionodon lalandii</i>	7		1				20	0.11	0.02	0.27		
<i>Priacanthus arenatus</i>	4		1				13	0.11		0.28		
<i>Lutjanus purpureus</i>	17	1					40	0.10	0.15	0.05		
<i>Sphyræna guachancho</i>	6	1					18	0.09	0.15	0.01	0.02	
<i>Knemidoptiles aurorubens</i>	7	1					20	0.08	0.05	0.15		
<i>Haemulon steindachneri</i>	6	1					18	0.07	0.10	0.04		
<i>Bagre marinus</i>	9						20	0.07	0.11	0.04		
<i>Sphyræna picudilla</i>	6	1					18	0.06	0.09	0.03		
<i>Sphyrna tiburo</i>	2	1					8	0.06	0.11			
<i>Aetobatus narinari</i>	1	1					5	0.06	0.11			
<i>Prenodopomaus eos</i>			1				3	0.05			0.60	
<i>Cynoscion steindachneri</i>	4						10	0.05	0.07	0.03		
<i>Cynoscion similis</i>	5						13	0.05	0.05	0.06		
<i>Pomatomus saltatrix</i>	4						10	0.05	0.01	0.12		
<i>Upeneus parvus</i>	16						40	0.05	0.04	0.08	0.01	
<i>Penaeus brasiliensis</i>	19						48	0.04	0.07	0.01		
<i>Penaeus subtilis</i>	9						23	0.03	0.06	0.01		
<i>Penaeus notialis</i>	17						43	0.03	0.03	0.04		
<i>Xiphopenaeus kroyeri</i>	3						8	0.01		0.03	0.01	
SOLENERIDAE	1						3				0.02	
<i>Nematopalaemon schmitti</i>	1						3					
<i>Tracrypeneus</i> sp	2						5		0.01			
<i>Penaeus schmitti</i>	4						10					
<i>Sicyonia</i> sp.	1						3					
Other fish								0.82	0.92	0.80	0.57	
Sum all species								10.85	12.39	10.19	3.33	
Sum Snappers								0.90	1.00	0.52	2.10	
Sum Groupers								0.07	0.01	0.05	0.62	
Sum Grunts								0.15	0.22	0.05		
Sum Croakers								4.64	4.71	3.54		
Sum Seabreams								0.03	0.03	0.01		
Sum Sharks								0.78	0.50	1.32		
Sum Rays								0.10	0.14	0.06		
Sum siliards (excl. SHRIMP)								0.11	0.17	0.09	0.03	
Number of stations included in analysis, total and by depth strata								40	22	15	3	

SHLEPT AREA ANALYSIS FROM STATION 103 THROUGH STATION 1077
TRINIDAD SHELF, ALL SURVEYS

ONLY STATIONS IN SECTION 4 WERE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% Inci- dence	mean dens.	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Lynoscion jamaicensis</i>	41	27	19	2	1	64	1.66	1.55	2.19		
<i>Irichiurus lepturus</i>	72	28	9	1		80	1.07	1.30	0.71		
<i>Ctenosciaena gracilicirrus</i>	34	15	4	3		42	0.74	0.39	1.67		
<i>Micropogonias turneri</i>	45	19	8			51	0.64	0.90	0.14		
<i>Xinopstera bonasus</i>	1				1	2	0.30	0.45			
<i>Lutjanus synagris</i>	59	6	1			47	0.25	0.36	0.05		
<i>Scomberomorus cavalla</i>	28	1	1	1		23	0.20	0.27	0.06	0.01	
<i>Bairdiella chrysoura</i>			1	2		2	0.20	0.24	0.11		
<i>Stellifer microps</i>	4	1	2	1		6	0.19	0.29			
<i>Macraron ancylodon</i>	18	4		1		16	0.19	0.27	0.05		
<i>Peprilus paru</i>	67	2	1			53	0.18	0.18	0.20		
<i>Diapterus rhombeus</i>	21	2	2			19	0.15	0.22			
<i>Mustelus nigmani</i>	46	3	1			37	0.14	0.16	0.10		
<i>Eucinostomus argenteus</i>	43	5				36	0.13	0.17	0.06		
<i>Mustelus canis</i>	7		3			8	0.12	0.01	0.41		
<i>Stellifer griseus</i>	4	2	2			6	0.12	0.19			
<i>Sphyræna quachancho</i>	22	4				20	0.10	0.13	0.03	0.01	
<i>Knizoprionodon porosus</i>	33		1			25	0.10	0.12	0.06		
<i>Pristipomoides macropomus</i>	24	4				22	0.10		0.14	1.26	
<i>Maigre marinus</i>	35	1				25	0.10	0.12	0.07		
<i>Prionotus punctatus</i>	49	3				39	0.09	0.10	0.09		
<i>Lutjanus purpureus</i>	62	1				44	0.08	0.07	0.12		
<i>Chaetodipterus tader</i>	14	3				13	0.07	0.19			
<i>Arius grandicassis</i>	11	1	1			10	0.07	0.19	0.01		
<i>Syngnathus papua</i>	13		1			15	0.06	0.02	0.14		
<i>Penaeus subtilis</i>	46	1				36	0.06	0.04	0.03		
<i>Isopisthus parvipinnis</i>	14	2				12	0.06	0.03			
<i>Priacanthus arenatus</i>	18	1	1			15	0.06		0.19	0.01	
<i>Lutjanus analis</i>	4	1	1			5	0.06	0.06	0.07		
<i>Penaeus notialis</i>	51	2				40	0.05	0.05	0.07		
<i>Knizoprionodon latidorsalis</i>	20		1			16	0.05	0.03	0.11		
<i>Lynoscion similis</i>	16	2				14	0.05	0.05	0.07		
<i>Upeneus parvus</i>	44	1				34	0.05	0.02	0.12	0.01	
<i>Knobopolites aurorubens</i>	27	1				21	0.05	0.02	0.12	0.01	
<i>Arius sp.</i>	2		1			2	0.05	0.07			
<i>Xiphopenaeus kroyeri</i>	15					11	0.03	0.03	0.02	0.01	
<i>Penaeus brasiliensis</i>	48					36	0.03	0.03	0.02		
<i>Trachypenaeus similis</i>	7					5	0.01	0.01			
<i>Trachypenaeus sp.</i>	18					14	0.01	0.01	0.02		
<i>Parapenaeus longirostris</i>	1					1	0.01	0.01			
Shrimps, small, non comm.	4					3	0.01	0.02			
SOLENOCERIDAE	1					1				0.01	
<i>Nematopalaemon schmitti</i>	2					2					
<i>Trachypenaeus constrictus</i>	1					1					
<i>Penaeus aztecus</i>	2					2					
<i>Penaeus schmitti</i>	11					8		0.01			
SICYONIA SP.	2					2					
SHRIMP	2					2					
Other fish							1.15	1.22	1.05	0.95	
SUM all SPECIES							8.84	9.51	8.30	2.31	
SUM Snappers							0.56	0.52	0.55	1.27	
SUM Groupers							0.08	0.04	0.04	0.52	
SUM Grunts							0.11	0.10	0.13		
SUM Croakers							4.07	4.25	4.35		
SUM Seabreams							0.02	0.02	0.03		
SUM Sharps							0.40	0.38	0.70		
SUM Rays							0.40	0.57	0.05		
SUM SQUIDS							0.06	0.05	0.07	0.08	
SUM											
SUM SHRIMPS (EXCL. BIVALVES)							0.20	0.22	0.16	0.02	
Number of stations included in analysis, total and by depth strata							132	86	38	6	

SWEPT AREA ANALYSIS FROM STATION 1020 THROUGH STATION 1077
TRINIDAD SHELF, FOURTH SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY FB/MM GROUPS					% inci- dence	Mean dens. t/nm ²	mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Cynoscion jamaicensis	23	7	2	1	1	62	1.56	0.87	4.78		
Trichiurus lepturus	34	10	3			86	0.88	0.60	1.29		
Micropogonias furnieri	21	8	4			62	0.77	0.95	0.04		
Utenosciaena brachicirrus	12	4	2			34	0.43	0.31	1.01		
Stellifer griseus	4	2	2			16	0.33	0.41			
Reprilus paru	26	1	1			56	0.24	0.24	0.25		
Sphyræna guachancho	11	3				28	0.17	0.20	0.07		
Bagre marinus	20	1				40	0.17	0.18	0.17		
Lutjanus synagris	24	1				50	0.15	0.15	0.12		
Stellifer microps	4	1	1			12	0.14	0.18			
Eucinostomus argenteus	10	3				26	0.14	0.18	0.01		
Macraron ancylodon	7	2				16	0.11	0.14			
Lutjanus analis	1		1			4	0.11	0.13			
Penaeus subtilis	20	1				42	0.10	0.12	0.02		
Isopisthus parvipinnis	12	1				26	0.10	0.13			
Lutjanus purpureus	28					52	0.10	0.06	0.28		
Prionotus punctatus	15	1				32	0.09	0.11	0.01		
Rhizoprionodon porosus	20					40	0.09	0.07	0.19		
Scomberomorus brasiliensis	8		1			18	0.09	0.11			
Bairdiella chrysoura			1			2	0.09		0.47		
Mustelus nigmani	25					50	0.08	0.08	0.13		
Chaetodipterus faber	8	1				18	0.08	0.10			
Penaeus notialis	17	1				36	0.06	0.07	0.05		
Sphyræna picuilla	13					26	0.05	0.03	0.12		
Scomberomorus cavalla	16					32	0.05	0.06	0.04	0.07	
Larus breviceps	5	1				12	0.05	0.05			
Cynoscion virescens	16					32	0.05	0.06	0.04		
Ucayatis guttata	2	1				6	0.05	0.06			
Priacanthus arenatus	7	1				16	0.05	0.01	0.28		
Lepomichthys profundum	14					28	0.05	0.06			
Diapterus olisthostomus	4	1				10	0.05	0.05			
Ziphenopus roveri	6					12	0.04	0.05			
Penaeus brasiliensis	15					30	0.02	0.02			
Shrimps, small, non comm.	2					4	0.02	0.02			
Trachypenaeus similis	7					14	0.01	0.02			
Penaeus schmitti	5					10	0.01	0.01			
Parapenaeus longirostris	1					2	0.01	0.02			
Trachypenaeus constrictus	1										
Trachypenaeus sp	9					18					
Penaeus aztecus	1					2					
Other fish							1.18	1.13	1.49	1.07	
Sum all species							7.77	7.26	10.86	1.14	
Sum Snappers							0.45	0.38	0.73	0.28	
Sum Groupers							0.01	0.02			
Sum Brants							0.10	0.08	0.21		
Sum Croakers							3.85	3.28	6.75		
Sum Seabreams							0.02	0.02			
Sum Sharks							0.25	0.25	0.39		
Sum Rays							0.18	0.21	0.01		
Sum Squids							0.06	0.05	0.06		
Sum											
Sum Shrimps (excl. SHKARU)							0.25	0.31	0.07		
NUMBER OF STATIONS INCLUDED IN ANALYSIS, total and by depth strata						50	46	9			

SWEEP AREA ANALYSIS FROM STATION 103 THROUGH STATION 1077
 TRINIDAD SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 4 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/WM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²				
	<10	10-30	30-100	100-300	300-1000 >1000			200-300m	300-400m	400-500m	500-800	
<i>Ariomma bondi</i>	1					1	5.49	0.37	15.63			
<i>Synagrops delius</i>	6	4				50	0.40		0.71	0.46	0.19	
<i>Steinodacnema argenta</i>	8	2				50	0.30	0.16	0.72	0.21	0.02	
Miscellaneous fish	7					35	0.14		0.10		0.23	
MYCTOPHIDAE		1				5	0.11	2.19				
<i>Eathynotus giganteus</i>	15					75	0.11		0.11	0.10	0.14	
<i>Penaeopsis serrata</i>	11					50	0.10	0.05	0.21	0.14	0.01	
<i>Parasudis trunculentus</i>	4	1				25	0.08	0.05	0.20	0.03		
SULENOCETIDAE	2					5	0.06		0.17			
<i>Larcharinus signatus</i>		1				5	0.06		0.18			
Zenion sp.	3					10	0.05		0.14			
<i>Plesioneaenus edwardsianus</i>	11					55	0.05				0.11	
<i>Mustelus canis</i>	1					5	0.05		0.13			
<i>Polyxilia ionel</i>	7					35	0.05	0.11	0.11	0.01		
<i>Stereosthis scuipta</i>	10					50	0.05		0.01	0.02	0.10	
<i>Plecticus robustus</i>	7					35	0.04		0.06	0.02	0.03	
<i>Acanthopneustes armata</i>	5					25	0.02				0.05	
<i>Nematocarcinus rotundus</i>	7					35	0.02				0.02	
<i>Glyptocranchon sp.</i>	7					45	0.02		0.01	0.02	0.03	
<i>Penaeopsis sp.</i>	2					5	0.01			0.06		
<i>Urophorid gracillirostris</i>	1					5	0.01		0.02			
<i>Glyptocranchon aurantica</i>	2					10	0.01				0.01	
S H R I M P S	1						0.01		0.01			
<i>Calinocera sp.</i>	1					5		0.03				
<i>Sergia robusta</i>	1					5						
<i>Pastiphaea ferraria</i>	1					5						
<i>Plesionika edwardsii</i>	2					10						
<i>Plesionika sp.</i>	2					10						
<i>Glyptocranchon neglecta</i>	2					10				0.01		
<i>Pontocaris sp.</i>	1					5						
CRANGONIDAE	1					5						
<i>Aristeus antillensis</i>	2					10						
<i>Aristeus varidens</i>	2					10						
<i>Aristaeomorpha foliacea</i>	1					5						
Other fish							0.66	1.06	0.45	0.77	0.73	
Sum all species							7.90	4.02	18.97	1.85	1.69	
Sum Snappers							0.01	0.12				
Sum Groupers												
Sum Wrunts							0.01				0.01	
Sum Croakers												
Sum Seabreams												
Sum Sharps							0.14		0.38	0.02	0.01	
Sum Rays							0.01		0.02	0.02		
Sum Squids							0.12	0.11	0.06	0.17	0.12	
Sum												
Sum SHRIMP (EXCL. SHIMPRI)							0.35	0.08	0.48	0.25	0.28	
NUMBER OF STATIONS INCLUDED IN ANALYSIS, TOTAL AND BY DEPTH STRATA							20	1	7	3	9	

SWEPT AREA ANALYSIS FROM STATION 103 THROUGH STATION 1077
TRINIDAD NORTH OF GALEOTA, ALL SURVEYS

THE ANALYSIS HAVE BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1200 SOUTHERN: 1009
WESTERN : -6200 EASTERN: -6000

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/WM GROUPS					% inci- dence	mean dens. t/m ²	mean densities by bottom depth strata t/m ²				
	<10	10-30	30-100	100-300	300-1000			>1000	- Sum	50-120m	120-200m	200-201
Lynosciaena jamaicensis	12	3	4			1	38	1.37	0.30	0.25		
Otenosciaena gracilicirrhus	4	2	2		2		21	0.95	0.18	2.28		
Microposonias furnieri	6	6	5				35	0.71	1.36	0.07		
Tricenturus lepturus	20	4	4				58	0.67	0.68	0.88		
Bairdiella chrysoura			1		2		6	0.54	0.89	0.24		
Stellifer microps	2	1	2		1		13	0.49	0.99			
Mustelus canis	7		3				21	0.33	0.02	0.65		
Stellifer griseus		1	2				6	0.28	0.56			
Lutjanus synagris	14	2	1				35	0.28	0.56	0.01		
Pristipomoides macrophthalmus	20	4	1				52	0.27		0.29	1.26	
Peprius paru	19	2	1				46	0.24	0.35	0.17		
Rhizoprionodon porosus	19		1				42	0.22	0.35	0.11		
Sphyræna guacancho	11	4					31	0.21	0.39	0.03	0.01	
Lutjanus analis	3	1	1				10	0.17	0.22	0.15		
Priacanthus arenatus	16	1	1				38	0.16	0.01	0.40	0.01	
Lutjanus purpureus	26	1					52	0.16	0.16	0.20		
Prionotus punctatus	11	2					27	0.13	0.16	0.12		
Rhomboplites aurorubens	25	1					54	0.13	0.08	0.24	0.01	
Arius grandicassis	4		1				10	0.13	0.26			
Arius sp	1		1				4	0.13	0.26			
Scorpaenomorrus cavalla	20	1					42	0.12	0.16	0.12	0.01	
Synodus poeyi	3		1				8	0.10		0.26		
Sphyræna picinotia	17	1					35	0.10	0.12	0.12		
Rhizoprionodon taylorii	3		1				13	0.10	0.03	0.22		
Larimus breviceps	4	2					13	0.09	0.13			
Isopisthus parvipinnis	3	1					13	0.09	0.19			
Upeneus parvus	29	1					63	0.09	0.06	0.15	0.01	
Mustelus nigmani	15						31	0.07	0.12	0.01		
Loligo pealei	19						40	0.05	0.03	0.07	0.08	
Pomatomus saltatrix	7						15	0.05	0.01	0.12		
Conodon nebulosus	1						15	0.05	0.10			
Bagre marinus	6						13	0.05	0.09	0.01		
Xiphopenaeus kroyeri	7						15	0.03	0.05	0.02	0.01	
Penaeus subtilis	12						25	0.02	0.04			
Penaeus brasiliensis	7						15	0.01		0.02		
Farapenaeus longirostris	1						2	0.01	0.03			
SOLENERIDAE	1						2				0.01	
Trachypenaeus sp	4						8					
Penaeus schmitti	4						8		0.01			
Penaeus notialis	6						13					
Other fish								1.04	1.22	1.00	0.90	
Sum all species							9.64	10.22	11.41	2.31		
Sum Snappers							1.06	1.06	0.99	1.21		
Sum Groupers							0.05		0.05	0.32		
Sum Grunts							0.12	0.23	0.05			
Sum Croakers							4.68	4.80	6.05			
Sum Seabreams							0.05	0.06	0.05			
Sum Sharks							0.75	0.55	1.21			
Sum Rays							0.08	0.16				
Sum Squids							0.08	0.05	0.11	0.08		
Sum												
Sum shrimps (excl. SHRIMP)							0.07	0.13	0.04	0.02		
Number of stations included in analysis, total and by depth strata							48	24	16	0		

SWEPT AREA ANALYSIS FROM STATION 103 THROUGH STATION 121
 TRINIDAD SHELF, FIRST SURVEY

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	mean dens. t/nn ²	mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus analis			1			20	0.41		0.68		
Irichturus lepturus	2	1				60	0.37		0.62		
Pristipomoides macropthalmeus	4					80	0.23		0.04	0.51	
Sphyrna picudilla	2					20	0.21		0.35		
Ariomma regulus	2					20	0.18			0.46	
Lutjanus purpureus	3					40	0.17		0.29		
Rhomboplites aurorubens	3					60	0.15		0.24		
Loligo pealei	3					60	0.10		0.11	0.09	
Scorpaenopus cavalla	2					20	0.10		0.16		
Phizoprionodon porosus	1					20	0.09		0.15		
Openeus parvus	5					100	0.08		0.12	0.02	
Loligo sp	2					40	0.06		0.10		
Penaeus subtilis	1					20					
Penaeus notialis	1										
Other fish							0.23		0.27	0.22	
Sum all species							2.38		3.13	1.30	
Sum Snappers							0.96		1.26	0.51	
Sum Groupers							0.01			0.04	
Sum Grunts							0.04		0.05		
Sum Croakers							0.02		0.04		
Sum Seaoreans							0.01		0.01		
Sum Sharks							0.10		0.17		
Sum Rays											
Sum Squids							0.16		0.21	0.09	
Sum											
Sum shrimps (excl. SHKAA01)											
Number of stations included in analysis, total and by depth strata							5		3	2	



SWEPT AREA ANALYSIS FROM STATION 1 THROUGH STATION 1077
 SUKINAME-TRINIDAD SLOPE ALL SURVEYS

THE ANALYSIS HAVE BEEN RESTRICTED TO THE FOLLOWING GEOGRAPHICAL LIMITS: NORTHERN : 1120 SOUTHERN: 700
 WESTERN : -6030EASTERN: -5300

PELAGIC SPECIES HAVE NOT BEEN INCLUDED IN THE ANALYSIS.

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS						% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²				
	<10	10-30	30-100	100-300	300-1000	>1000			200-300m	300-400m	400-500m	500-800	
Artemia bondi	1					1	5	2.55	0.09	12.16			
Nematocarcinus rotundus	10	2	1				30	0.24					0.45
Miscellaneous fish	18		1				44	0.24		0.11	0.03		0.39
Synagrops bellus	13	4					40	0.23	0.08	0.59	0.28		0.11
Steindachneria argenta	11	2					30	0.15	0.04	0.57	0.09		0.02
Cubiceps sp	1		1				5	0.11	0.17	0.44			
Plesiopenaeus edwardstanus	31						72	0.10	0.01	0.01	0.01		0.18
Bathynomus giganteus	23						53	0.09		0.08	0.12		0.10
Pholidoteuthis adami	8	1					21	0.07					0.14
MYCTOPHIDAE	9	1					23	0.07	0.56				0.04
Parasudis triculentus	9	1					23	0.07	0.07	0.22	0.12		
Polymixia sp	2	1					7	0.06	0.04	0.65	0.25		
Illex illecebrosus	14						33	0.05	0.18	0.05	0.09		0.01
SOLENCERIDAE	10						21	0.05		0.15	0.05		0.01
Penaeopsis serrata	12						26	0.05	0.01	0.16	0.06		
Epigonus sp	3	1					9	0.05			0.01		0.08
Plecticus robustus	8						19	0.02		0.05	0.01		0.01
Glyphocrangon sp	16						37	0.02		0.01	0.01		0.04
Shrimps, small, non comm.	3						7	0.02					0.03
S H R I M P S	3						7	0.02		0.01	0.01		0.02
Acanthephyra armata	7						16	0.01					0.02
OPLOPHORIDAE	2						5	0.01					0.01
Solenocera sp	2						5		0.01				
Sergia robusta	1						2						
Pastiphaea merriami	1						2						
Penaeopsis sp	2						5				0.03		
PENAEIDAE	1						2						
Plesionika edwardsii	2						5						
Plesionika sp	4						9						
FANDALIDAE	5						12						
Urophoris gracilirostris	1						2			0.01			
Acanthephyra eximia	2						5						0.01
NEMATOCARCINIDAE	1						2						
Gnathophausia ingens	1						2						
HIPPOLYTIIDAE	3						7						
Glyphocrangon neglecta	2						5						
Glyphocrangon aurantica	2						5						0.01
Pontocaris sp.	1						2						
CRANGONIDAE	2						5						
Caridea	1						2						
Aristeus antillensis	3						7						
Aristeus varioides	3						7						
Aristeus sp	1						2						
Aristaeomorpha foliacea	1						2						
Other fish								0.98	0.95	1.03	1.15		0.97
Sum Snappers								0.02	0.20				
Sum Groupers													
Sum Grunts													
Sum Croakers													
Sum Seabreams													
Sum Sharks								0.09	0.08	0.39	0.04		0.03
Sum Rays								0.02		0.02	0.02		0.02
Sum Squids								0.18	0.25	0.10	0.17		0.19
Sum													
Sum shrimps (excl. SHRAA01)								0.52	0.03	0.40	0.18		0.76
Number of stations included in analysis, total and by depth strata								43	4	9	7		23



SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 259
ORIENTE SHELF, FIRST SURVEY

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Bagre marinus</i>	4	2	2	2	1	25	1.98	4.15			
<i>Trichurus lepturus</i>	12	2			1	30	1.23	0.22	2.24		
<i>Ballistes vetula</i>	5	1			1	16	1.11	2.30	0.02		
<i>Haemulon beschmae</i>	5	3	2			23	0.46	0.33	0.61		
<i>Loliigo plei</i>	27	4	1			70	0.38	0.38	0.39		
<i>Friacanthus arenatus</i>	22	1	1			50	0.34	0.31	0.39		
<i>Pristipomoides macrophtalmus</i>	14	3	1			41	0.34	0.04	0.56	1.68	
<i>Orthopristis ruder</i>	5	1	2			18	0.30	0.60	0.03		
<i>Loliigo pealei</i>	20	3	1			55	0.28	0.41	0.17	0.01	
<i>Sphyræna guachancho</i>	8	1	1			20	0.25	0.52	0.01		
<i>Calamus calamus</i>	1		2			5	0.25	0.51			
<i>Lutjanus analis</i>	6	1	1			18	0.22	0.38	0.08		
<i>Upeneus parvus</i>	21		1			50	0.19	0.05	0.32	0.03	
<i>Saurida sp</i>	9		1			20	0.11	0.01	0.20		
<i>Pomacanthus paru</i>	2		1			7	0.11	0.23			
<i>Haemulon steindachneri</i>	3	3				14	0.10	0.15	0.05		
<i>Synodus foetens</i>	8	2				20	0.09	0.04	0.14		
<i>Lutjanus buccanella</i>	1		1			2	0.09		0.17		
<i>Bodianus rurus</i>			1			2	0.09	0.18			
<i>Haemulon striatum</i>	1	2				7	0.08		0.15		
<i>Bairdiella sanctaeluciae</i>	3	1				9	0.06	0.12			
<i>Pseudupeneus maculatus</i>	1	1				5	0.06	0.12			
<i>Prionotus punctatus</i>	10					20	0.05	0.10			
<i>Khizoprionodon porosus</i>	7	1				18	0.05	0.10	0.01		
<i>Nycteroperca cidi</i>		1				2	0.05	0.10			
<i>Micropogonias furnieri</i>	7					16	0.05	0.11			
<i>Lynxiscion jamaicensis</i>	9					16	0.05	0.10	0.01		
<i>Fistularia petimba</i>	17					39	0.05	0.03	0.06	0.03	
<i>Penaeus brasiliensis</i>	13					30	0.01	0.01			
<i>Penaeus notialis</i>	10					23	0.01	0.03			
<i>Xiphopenaeus kroyeri</i>	2					5		0.01			
<i>Penaeus schmitti</i>	3					7					
<i>Penaeus subtilis</i>	4					9					
<i>Plesionika edwardsii</i>	1					2					
Shrimps, small, non comm.	1					2		0.01			
Other fish							1.32	1.98	0.74	0.75	
Sum all species							9.76	13.63	6.35	2.50	
Sum Snappers							0.72	0.46	0.91	1.68	
Sum Groupers							0.23	0.39	0.05		
Sum Grunts							1.07	1.31	0.88		
Sum Croakers							0.29	0.62	0.02		
Sum Seabreams							0.28	0.54	0.03	0.36	
Sum Sharks							0.12	0.12	0.12		
Sum Rays							0.07	0.05	0.06	0.31	
Sum Squids							0.67	0.81	0.58	0.01	
Sum											
Sum Shrimps (excl. SHKAA01)							0.02	0.05			
Number of stations included in analysis, total and by depth strata							44	21	22	1	

SWEPT AREA ANALYSIS FROM STATION 455 THROUGH STATION 567
ORIENTE SHELF, SECOND SURVEY

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MN GROUPS						% incidence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Pristipomoides macrophtthalmus	12	5	9	3			62	2.05	0.63	3.09	1.55	
Cathorops spixii	1	1			1		6	1.23	3.21			
Ctenosciaena gracilicirrhus		2	2	1			11	0.81	0.49	1.14		
Upeneus parvus	23	5	3				64	0.73	0.56	0.94		
Rhomboplites aurorubens	13	4	2				40	0.50	0.18	0.77	0.05	
Loligo plei	25	5	2				68	0.49	0.83	0.27	0.46	
Priacanthus arenatus	23	6	1				62	0.45	0.38	0.55	0.03	
Micropogonias turneri	5	1	3				17	0.40	0.32	0.49		
Bairdiella chrysoura				1			2	0.40	0.72			
Triclinurus lepturus	6	2	2				21	0.37	0.09	0.50	0.89	
Synodus poeyi	27	3	1				66	0.34	0.46	0.27	0.16	
Diapterus rhombeus				1			2	0.33	0.86			
Sphyræna picudilla	9	1		1			23	0.29	0.72	0.03		
Sciaena bathytatos				1			2	0.28			4.44	
Scomberomorus cavalla	5			1			13	0.27	0.69	0.01		
Ocyurus chrysurus				1			2	0.25	0.66			
Peprius paru	1		2				6	0.23	0.04	0.38		
Loligo pealei	22	3					53	0.22	0.22	0.21	0.28	
Miscellaneous fish			1				2	0.21	0.55			
Haemulon boschnae	7	1	1				19	0.20	0.08	0.30		
Haemulon steindachneri	6	2					17	0.17	0.24	0.14		
Mustelus canis	4	3					15	0.15		0.26		
Sphyræna guacancho	8	3					23	0.13	0.16	0.12		
Synodus roetens	4	1					11	0.12	0.32			
Dactylopterus volitans	12	1					28	0.11	0.04	0.16		
Caiaus pennatula	1		1				4	0.10	0.26			
Mycteroperca citor	2	3					11	0.10		0.17		
Haemulon chrysargyreum	1		1				4	0.10		0.18		
Lutjanus analis	4	1					11	0.09	0.01	0.16		
Prionotus punctatus	8	1					19	0.08	0.04	0.12		
Lagocephalus laevigatus	9	1					21	0.08	0.15	0.04	0.02	
Orthopristis ruber	4	2					13	0.08	0.12	0.06		
Viplectrum bivittatum	12	1					28	0.07	0.18	0.01		
Viplectrum formosum	7	1					17	0.07	0.20			
PERCICHTHYDAE			1				2	0.07			1.07	
Aluterus monoceros	12						26	0.07	0.02	0.11		
Balistes vetula	6	1					15	0.07	0.13	0.04		
Epinephelus niveatus	2	2					9	0.06		0.07	0.34	
Scorpaena brasiliensis	4	1					11	0.06	0.10	0.03		
Bairdiella sanctaeluciae	1	1					4	0.06	0.16			
Fistularia petimba	22						47	0.06	0.01	0.10	0.08	
Rhizoprionodon porosus	6						13	0.05	0.08	0.04		
Epinephelus flavoillabatus	4	1					11	0.05	0.06	0.04		
Haemulon flavolineatum	3	1					9	0.05		0.09		
Eucinostomus argenteus	13						28	0.05	0.06	0.05		
Caulolatilus cyanops	5	1					13	0.05	0.03	0.06	0.15	
ATOMMA DONO	10						21	0.05		0.03		
S H R I H P S		1					2	0.03			0.53	
Penaeus brasiliensis	14						30	0.01	0.03	0.01		
Penaeus notialis	6						13	0.01	0.01	0.01	0.02	
Penaeus subtilis	1						2					
Other fish								0.99	1.22	0.88	1.60	
Sum all species							13.29	14.60	12.70	11.67		
Sum Snappers							2.97	1.57	4.12	1.60		
Sum Groupers							0.45	0.62	0.35	0.47		
Sum Grunts							0.70	0.52	0.89			
Sum Croakers							2.10	1.09	2.54	4.58		
Sum Seaoreans							0.18	0.32	0.08	0.19		
Sum Sharks							0.21	0.12	0.31			
Sum Rays							0.01		0.03			
Sum Squids							0.77	1.15	0.51	0.74		
Sum												
Sum shrimps (excl. SHRABU)							0.05	0.04	0.02	0.55		
Number of stations included in analysis, total and by depth strata							47	18	26	3		

SWEPT AREA ANALYSIS FROM STATION 7351 THROUGH STATION 861
ORIENTE SHELF, THIRD SURVEY

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
<i>Otenosciaena gracilicirrus</i>	2	1			1	10	0.82	0.11		7.79	
<i>Pristipomoides macrophthalmus</i>	14	3	2	1		50	0.79		1.30	1.05	
<i>Rhomboplites aurorubens</i>	17	1	5			58	0.75	0.39	1.07	0.38	
<i>Haemulon boschmae</i>	13	5	2			50	0.57	0.79	0.51		
<i>Cathorops spixii</i>	2			1		8	0.41	1.05	0.02		
<i>Galistes vetula</i>	4		2			15	0.36	0.95	0.01		
<i>Haemulon flavolineatum</i>				1		3	0.28		0.54		
<i>Upeneus parvus</i>	21	2	1			60	0.28	0.02	0.49	0.13	
<i>Haemulon striatum</i>	2	3	1			15	0.22		0.42		
<i>Priacanthus arenatus</i>	24					60	0.16	0.15	0.18	0.13	
<i>Calamus pennatula</i>	2		1			8	0.15	0.38	0.01		
<i>Trichiurus lepturus</i>	4	3				18	0.14	0.24	0.10		
<i>Lutjanus purpureus</i>	5	1	1			18	0.14	0.15	0.16		
<i>Haemulon steindachneri</i>	5	2				18	0.12	0.22	0.06		
<i>Lutjanus analis</i>	5	1				15	0.11	0.16	0.09		
<i>Lachnolaimus maximus</i>	2		1			8	0.10	0.23	0.03		
<i>Diapterus rhombeus</i>	1		1			5	0.10	0.27			
<i>Dactylopterus volitans</i>	14	1				38	0.08	0.14	0.06		
TURTLE		1				3	0.07	0.18			
<i>Synodus intermedius</i>	8					20	0.07		0.13	0.05	
<i>Synodus foetens</i>	11	1				30	0.07	0.16	0.03		
<i>Rhizoprionodon porosus</i>	4	1				13	0.07	0.12	0.05		
<i>Loligo plei</i>	23					58	0.06	0.12	0.02	0.02	
<i>Eucinostomus argenteus</i>	9	1				25	0.06	0.02	0.11		
<i>Mustelus canis</i>	5					13	0.05		0.04	0.21	
kaja sp		1				3	0.05	0.13			
<i>Pomacanthus paru</i>	1	1				5	0.05	0.13			
<i>Acanthurus chirurgus</i>		1				3	0.05	0.12			
<i>Penaeus brasiliensis</i>	11					28	0.01		0.01	0.01	
<i>Solenocera</i> sp	2					5				0.01	
<i>Penaeus notialis</i>	2					5					
<i>Plesionika edwardsii</i>	2					5				0.01	
Other fish							1.01	1.01	0.97	1.10	
Sum all species							7.20	7.24	6.41	10.89	
Sum Snappers							1.86	0.79	2.68	1.43	
Sum Groupers							0.10	0.10	0.07	0.29	
Sum Grunts							1.30	1.07	1.68	0.07	
Sum Croakers							0.85	0.13	0.01	7.90	
Sum Seabreams							0.17	0.39	0.03	0.09	
Sum Sharks							0.12	0.12	0.09	0.22	
Sum Rays							0.05	0.13	0.01		
Sum Squids							0.11	0.15	0.06	0.17	
Sum											
Sum shrimps (excl. SHRAA01)							0.01		0.01	0.03	
Number of stations included in analysis, total and by depth strata							40	15	21	4	

SWEPT AREA ANALYSIS FROM STATION 1078 THROUGH STATION 1179
ORIENTE SHELF, FOURTH SURVEY

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MH GROUPS						% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Haemulon boschmae	7		1		3		33	1.76	2.86	0.08		
Pristipomoides macrophthalus	13	2	2		1		55	1.13	0.24	2.03	8.07	
Priacanthus arenatus	16		4				58	0.64	0.31	1.22	0.37	
Haemulon aureolineatum	3	1			1		15	0.42	0.69			
Rhomboplites aurorubens	6	1			1		24	0.40	0.03	1.04		
Upeneus parvus	16	3	1				61	0.39	0.17	0.69	1.34	
Cathorops spixii	2				1		9	0.38	0.02	1.03		
Dactylopterus volitans	16	1	1				55	0.34	0.54	0.03		
Balistes vetula	4		2				18	0.34	0.55	0.03		
Leiigo plei	15	4					58	0.33	0.51	0.04		
Eucinostomus argenteus	5		1				18	0.30	0.47	0.04		
Nycteroperca cidi		1	1				6	0.26	0.44			
Pagrus pagrus	2	1	1				12	0.23	0.10	0.47		
Lutjanus analis	3		1				12	0.20	0.31	0.04		
Ocyurus chrysurus		3					9	0.17	0.28			
Mullus auratus	1		1				6	0.16		0.43		
Aetobatus narinari			1				3	0.15	0.25			
Orthopristis ruber	5		1				18	0.15	0.24	0.03		
Haemulon steindachneri	2	3					15	0.15	0.18	0.10		
Calamus calamus			1				3	0.14	0.23			
Trichurus lepturus	6		1				21	0.12	0.19	0.02		
Synodus poeyi	8	1					27	0.11	0.10	0.14		
Calamus pennatula	2		1				9	0.10	0.16	0.01		
Synodus foetens	6	1					21	0.09	0.11	0.06		
Saurida brasiliensis	3	1					12	0.09		0.23	0.21	
Lachnelasmus maximus	2	1					9	0.08	0.12			
Acanthostracion quadricornis	13						39	0.07	0.11	0.01		
Mulloidichthys martinicus	1	1					6	0.07	0.11			
Lutjanus vivanus	2	1					9	0.07	0.02	0.15		
Synodus intermedius	12						36	0.06	0.01	0.15		
Ctenosciaena gracilicirrhus	1	1					6	0.06	0.08	0.01		
Haemulon melanurum	6	1					21	0.06	0.08	0.04		
Acanthostracion polygonos	5	1					18	0.06	0.08	0.03		
Lutjanus purpureus	7						21	0.06	0.02	0.13		
Lagocephalus laevigatus	6						15	0.05	0.04	0.06		
Haemulon striatum	2	1					9	0.05		0.13		
Fistularia petimba	13						39	0.05	0.06	0.04		
Diodon sp.		1					3	0.05	0.08			
Paralichthys tropicus	13						39	0.05	0.03	0.07	0.09	
Acanthurus chirurgus	2	1					9	0.05	0.08			
Penaeus brasiliensis	8						24	0.01	0.01	0.01		
Penaeus notialis	2						6	0.01	0.02			
Xipopenaeus kroyeri	1						3					
Penaeus aztecus	1						3					
Other fish								1.15	1.32	1.00	0.21	
Sum all species								10.61	11.25	9.59	10.29	
Sum Snappers								2.07	0.95	3.39	8.07	
Sum Groupers								0.45	0.67	0.12		
Sum Grunts								2.61	4.07	0.41		
Sum Croakers								0.13	0.14	0.12		
Sum Seabreams								0.48	0.51	0.48		
Sum Sharks								0.07	0.07	0.11		
Sum Rays								0.21	0.35			
Sum Squids								0.35	0.52	0.05		
Sum												
Sum shrimps (excl. SHKAR01)								0.02	0.03	0.01		
Number of stations included in analysis, total and by depth strata								33	20	12	1	

SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 1179
ORIENTE SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Pristipomoides macrophthalmus</i>	53	13	14	5		52	1.10	0.23	1.78	2.07	
<i>Haemulon boschmae</i>	32	9	6	3		30	0.67	1.05	0.41		
<i>Cathorops spixii</i>	5	1		2	1	5	0.53	1.00	0.16		
<i>Bagre marinus</i>	7	2	2	2	1	9	0.53	1.18			
<i>Trichiurus lepturus</i>	28	7	3		1	23	0.49	0.18	0.80	0.30	
<i>Ballistes vetula</i>	19	2	4		1	16	0.48	1.03	0.02		
<i>Otenoscaena gracilicirrus</i>	10	4	2	1	1	11	0.45	0.18	0.37	3.46	
<i>Knopopites aurorubens</i>	46	6	7	1		36	0.42	0.14	0.70	0.19	
<i>Upeneus parvus</i>	81	10	6			59	0.41	0.20	0.62	0.21	
<i>Priacanthus arenatus</i>	85	7	6			57	0.39	0.29	0.51	0.11	
<i>Loligo plei</i>	90	13	3			64	0.32	0.48	0.20	0.16	
<i>Loligo pealei</i>	59	6	1			40	0.15	0.17	0.12	0.16	
<i>Lutjanus analis</i>	18	3	2			14	0.15	0.23	0.10		
<i>Micropogonias furnieri</i>	16	1	3			12	0.13	0.12	0.16		
<i>Orthopristis ruber</i>	15	3	3			13	0.13	0.26	0.03		
<i>Haemulon steindachneri</i>	16	10				16	0.13	0.20	0.09		
<i>Synodus poeyi</i>	48	4	1			32	0.12	0.14	0.11	0.06	
<i>Sphyræna guachancho</i>	29	4	1			20	0.12	0.21	0.05		
<i>Diapterus rhombeus</i>	4		1	1		4	0.12	0.27			
<i>Dactylopterus volitans</i>	48	3	1			32	0.12	0.19	0.07		
<i>Sphyræna picudilla</i>	31	1		1		20	0.11	0.21	0.02		
<i>Bairdiella chrysoura</i>				1		1	0.11		0.23		
<i>Haemulon aurolineatum</i>	19	1		1		13	0.11	0.21	0.02	0.01	
<i>Ocyurus chrysurus</i>	3	3		1		4	0.11	0.24			
<i>Synodus foetens</i>	29	4	1			20	0.10	0.15	0.06		
<i>Hycteroperca cidi</i>	3	5	1			5	0.10	0.15	0.07		
<i>Calamus calamus</i>	1		3			2	0.09	0.21			
<i>Haemulon striatum</i>	6	7	1			9	0.09		0.19		
<i>Eucinostomus argenteus</i>	27	1	1			18	0.09	0.15	0.05		
<i>Pepilus paru</i>	12		2			9	0.08	0.04	0.13		
<i>Calamus pennatula</i>	5		3			5	0.08	0.18	0.01		
<i>Scomberomorus cavalla</i>	10			1		7	0.08	0.18			
<i>Sciaena bathytatos</i>				1		1	0.08			1.48	
<i>Haemulon flavolineatum</i>	3	1		1		3	0.08		0.17		
<i>Mustelus canis</i>	18	3				13	0.07	0.01	0.11	0.09	
<i>Fagrus parrus</i>	16	1	1			11	0.06	0.03	0.09	0.10	
Miscellaneous fish			1			1	0.06	0.13			
<i>Lutjanus purpureus</i>	26	1	1			17	0.06	0.05	0.08		
<i>Lachnoilaimus maximus</i>	6	3	1			6	0.06	0.11	0.02		
<i>Khizoprionodon porosus</i>	18	2				12	0.05	0.07	0.03		
<i>Pomacanthus paru</i>	7	1	1			5	0.05	0.12			
<i>Fistularia petimba</i>	69					42	0.05	0.03	0.06	0.06	
<i>Penaeus brasiliensis</i>	46					28	0.01	0.01	0.01	0.01	
<i>Penaeus notialis</i>	20					12	0.01	0.02		0.01	
S H R I N P S		1				1	0.01			0.18	
<i>Solenocera</i> sp	2					1					
<i>Xiphopenaeus kroyeri</i>	3					2					
<i>Penaeus aztecus</i>	1					1					
<i>Penaeus schmitti</i>	3					2					
<i>Penaeus subtilis</i>	5					3					
<i>Pleuromma edwardsii</i>	3					2					
Shrimps, small, non comb.	1					1					
Other fish							1.47	1.89	1.22	1.51	
Sum all species							10.23	11.94	8.87	10.17	
Sum Snappers							1.92	0.94	2.77	2.26	
Sum Groupers							0.32	0.46	0.16	0.29	
Sum Grunts							1.31	1.84	1.62	0.04	
Sum Croakers							0.91	0.50	0.83	5.04	
Sum Seabreams							0.25	0.45	0.12	0.14	
Sum Sharks							0.14	0.10	0.17	0.10	
Sum Rays							0.07	0.14	0.03	0.03	
Sum Squids							0.50	0.69	0.33	0.32	
Sum											
Sum shrimps (excl. SHRAB01)							0.03	0.03	0.01	0.20	
Number of stations included in analysis, total and by depth strata							164	74	81	9	

SWEPT AREA ANALYSIS FROM STATION 122THROUGH STATION 1179
 ORIENTE SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 5 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/nm ²	mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	200-300m	300-400m	400-500m	500-800
Steinodacnema argenta	5	7	2	1		71	1.91	1.06	4.76	2.21	0.30
Prionna melanum	1			1		10	0.58		2.63		
Polydora iohel	10	3				62	0.33	0.62	0.74	0.04	
Penaeopsis serrata	9	2				48	0.19	0.31	0.50	0.03	0.01
Miscellaneous fish	1	1				10	0.15			0.38	0.17
MALCOUILLAE	1		1			10	0.15		0.78		0.01
Fristipomoides macrophtnaimus	1	1				10	0.12	0.42			
Kathynomus giganteus	9					43	0.11			0.08	0.37
Ilix coindetti	9					43	0.10		0.15	0.16	0.08
Nemantias leptus		1				5	0.10	0.35			
Sciaea sp	2	1				14	0.09	0.32			
Synagrops bellus	10	1				52	0.09	0.21	0.08	0.01	0.05
Centrophorus granulosus	4					19	0.08			0.24	0.03
Coelorinchus caridbaeus	1	1				10	0.08	0.09		0.17	
Coelorinchus sp	5					24	0.08	0.09	0.26		
Xenodermichthys sp		1				5	0.08				0.32
Pleurotius robustus	9					43	0.07		0.06	0.18	0.03
Aristaeomorpha foliacea	6	1				33	0.07			0.22	0.05
Epinephelus morio	1	1				10	0.07	0.25			
Pontinus longispinis	8					38	0.06	0.14	0.09		
Dibranchius atlanticus	4	1				24	0.06		0.01	0.20	
Physiculus fulvus	6					29	0.06			0.09	0.12
Glyphocrangon neglecta	4					19	0.05			0.15	0.02
Neosepinula orientalis	5					24	0.05	0.11	0.08		
Glyphocrangon sp	6					24	0.03			0.03	0.09
Solenocera acuminata	2					10	0.02		0.10		
Parapenaeus longirostris	1					5	0.02		0.10		
Aristeus varidens	4					19	0.02			0.05	0.01
Hymenopenaeus sp	1					5	0.01	0.02			
Solenocera sp	4					19	0.01	0.03			
Plesionika edwardsii	7					33	0.01		0.01	0.04	
Plesionika edwardsianus	1					5	0.01				0.05
Aristaeomorpha sp	2					10	0.01			0.02	
Shrimps, small, non comm.	5					24	0.01	0.02			
SOLENCERIDAE	3					14		0.01			
Pasiphaea merriami	1					5					
Penaeopsis sp	1					5			0.01		
Plesionika polycanthonensis	1					5				0.01	
Plesionika sp	4					19		0.01			
PANDALIDAE	1					5					
Ulopharis gracilirostris	3					10					
Acanthephyra armata	1					5				0.01	
Acanthephyra sp.	1					5					
OPLOPHORIDAE	1					5					
Nematocarcinus rotundus	1					5					
Pontocaris sp.	1					5					
CRANGONIDAE	1					5					
Laridea	1					5					
Other fish							1.18	1.01	1.70	1.31	0.98
Sum all species							5.98	5.07	12.06	5.63	2.68
Sum Snappers							0.12	0.42			
Sum Groupers							0.19	0.69			
Sum Grunts											
Sum Croakers							0.10	0.35			
Sum Seabreams											
Sum Sharks							0.27	0.23	0.21	0.55	0.12
Sum Rays							0.05			0.16	0.02
Sum Squids							0.17	0.04	0.18	0.19	0.22
Sum											
Sum shrimps (exc. SHRAG01)							0.52	0.38	0.78	0.74	0.25
Number of stations included in analysis, total and by depth strata							21	6	4	6	5

SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 259
 VENEZUELA WEST SHELF, FIRST SURVEY

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS						% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Trichiurus lepturus		9		3			46	0.81	0.02	0.81	1.73	
Upeneus parvus		12	3				63	0.34	0.01	0.51	0.42	
Loligo plei		10	2				50	0.23	0.15	0.41		
Priacanthus arenatus		16	2				71	0.23	0.06	0.37	0.16	
Haemulon aurolineatum		5		1			21	0.22	0.01	0.47		
Pristipomoides macrophthalmus		11	1				46	0.22		0.17	0.57	
Lutjanus analis		3	2				21	0.22	0.31	0.29		
Lutjanus synagris		9	1				42	0.21	0.36	0.23		
Oxyatis americana				1			4	0.14		0.30		
Prionotus punctatus		3	1				17	0.11	0.01	0.05	0.32	
Sphyræna picuoides		7	1				33	0.11	0.12	0.16		
Loligo pealei		11					46	0.10		0.06	0.27	
Sphyræna guachancho		5					21	0.09	0.20	0.08		
Aluterus monoceros		8					33	0.08	0.02	0.16		
Lutjanus purpureus		10					38	0.07	0.05	0.12		
Calamus penna		2					8	0.05	0.06	0.06		
Mustelus canis		3					13	0.05		0.09	0.06	
Chromoplates aurorubens		8					29	0.05	0.08	0.05		
Solenocera sp		1					1					
SOLENUCERIDAE							4					
Xiphopenaeus kroyeri		1					4					
Penaeus brasiliensis		3					13					
Penaeus subtilis		1					4					
Penaeus notialis		2					8					
Shrimps, small, non comm.		3					13				0.01	
Other fish								0.72	0.66	0.88	0.80	
Sum all species								4.05	2.12	5.27	4.34	
Sum Snappers								0.82	0.94	0.92	0.57	
Sum Groupers								0.02			0.12	
Sum Grunts								0.26	0.06	0.53		
Sum Croakers									0.03		0.02	
Sum Seabreams								0.11	0.10	0.15	0.01	
Sum Sharks								0.09	0.03	0.13	0.10	
Sum Rays								0.14		0.30		
Sum Squids								0.35	0.15	0.52	0.30	
Sum												
Sum shrimps (excl. SHKAA01)												
Number of stations included in analysis, total and by depth strata								24	7	11	6	

SWEPT AREA ANALYSIS FROM STATION 455 THROUGH STATION 567
 VENEZUELA WEST SHELF, SECOND SURVEY

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS						% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Rhomboplites aurorubens	15	2		1			81	0.91	0.10	1.11	0.98	
Lutjanus analis	6	5	1				57	0.74	1.89	0.53		
Trichurus lepturus	2			1			14	0.69		0.01	7.10	
Dasyatis sp	1		1				5	0.39		0.55		
Aluterus monoceros	8		1				43	0.38	0.07	0.50	0.11	
Lutjanus purpureus	11		1				57	0.33	0.31	0.38		
Pristipomoides macrophthalmus	12		1				62	0.31		0.06	2.78	
Lutjanus synagris	11	2					62	0.29	0.43	0.29		
Eucinostomus argenteus	11	2					62	0.25	0.37	0.25		
Lutjanus apodus			1				5	0.16		0.23		
Lutjanus vivanus	4	1					19	0.14	0.11	0.17		
Loligo pie	17						81	0.12	0.07	0.15	0.03	
Priacanthus arenatus	15						71	0.12	0.12	0.14		
Calamus pennatula	8						38	0.11	0.32	0.07		
Lutjanus griseus	1	1					10	0.11		0.16		
Scomberomorus brasiliensis	1	1					10	0.10		0.14		
Mycteroperca cidi		1					5	0.09		0.13		
Calamus penna	6						29	0.08	0.36	0.01		
Myliobatis freminvillei	2	1					14	0.08		0.02	0.67	
Upeneus parvus	16						71	0.08	0.07	0.08	0.14	
Sphyræna guachancho		1					5	0.07	0.38			
Scomberomorus cavalla	5						24	0.06	0.18	0.04		
Hemanthias leptus		1					5	0.05			0.56	
Panaeus brasiliensis	1						5					
Other fish								0.37	0.11	0.44	0.80	
Sum all species								6.03	4.89	5.46	13.17	
Sum Snappers								2.99	2.84	2.93	3.76	
Sum Groupers								0.14		0.13	0.56	
Sum Grunts												
Sum Croakers												
Sum Seabreams								0.20	0.68	0.10		
Sum Sharks								0.04		0.05	0.13	
Sum Rays								0.47		0.57	0.67	
Sum Squids								0.14	0.07	0.17	0.07	
Sum												
Sum shrimps (excl. SHKAA01)												
Number of stations included in analysis, total and by depth strata								21	4	15	2	

SWEPT AREA ANALYSIS FROM STATION 735 THROUGH STATION 861
 VENEZUELA WEST SHELF, THIRD SURVEY

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					X inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus analis	7	4				61	0.53	0.76	0.52		
Lutjanus synagris	7	2				50	0.29	0.31	0.30		
Eucinostomus argenteus	9	1				56	0.26	0.07	0.32		
Pristipomoides macrophthalmus	9	1				56	0.22		0.25	0.42	
Lutjanus vivanus	6	1				39	0.16		0.20		
Upeneus parvus	12					61	0.12		0.16		
Rhombopites aurorubens	10					56	0.12	0.03	0.13	0.16	
Calamus pennatula	5					28	0.10	0.12	0.11		
Calamus penna	6					33	0.08	0.24	0.05		
Haemulon doszschae	5					28	0.08	0.01	0.10		
Lutjanus griseus		1				6	0.08		0.10		
Holanthias martinicensis		1				6	0.06		0.08		
Saurida normani	7					39	0.05		0.06	0.02	
Scomberomorus cavalla	5					28	0.05	0.02	0.06		
Lutjanus purpureus	8					44	0.05	0.01	0.06		
Fistularia petimba	12					67	0.05	0.01	0.06	0.04	
Penaeus brasiliensis	5					28	0.01		0.01		
Penaeus subtilis	1					6					
Penaeus notialis	3					17			0.01		
Penaeus sp	1					6					
Plesionika edwardsii	1					6					
Other fish							0.75	0.90	0.76	0.66	
Sum all species							3.06	2.48	3.34	1.30	
Sum Snappers							1.45	1.11	1.56	0.58	
Sum Groupers							0.07	0.04	0.10	0.11	
Sum Grunts							0.19	0.09	0.24	0.04	
Sum Croakers											
Sum Seadreams							0.21	0.36	0.20		
Sum Sharks							0.04		0.06		
Sum Rays							0.02		0.02		
Sum Squids							0.05	0.02	0.05	0.12	
Sum											
Sum shrimps (excl. SHKAAU1)							0.01		0.02		
Number of stations included in analysis, total and by depth strata							18	3	14	1	

SWEPT AREA ANALYSIS FROM STATION 1078 THROUGH STATION 1179
 VENEZUELA WEST SHELF, FOURTH SURVEY

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% incidence	mean dens. t/mm ²	Mean densities by bottom depth strata t/mm ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
Lutjanus analis	10	2	1			65	0.60	0.77	0.96		
Lutjanus synagris	8	4				55	0.49	0.39	0.57		
Upeneus parvus	16	2				90	0.39	0.49	0.30		
Rhomboplites aurorubens	13		1			70	0.29	0.13	0.42		
Calamus penna	5	2				35	0.21	0.24	0.18		
Eucinostomus gula	3	2				25	0.21	0.42	0.04		
Fristipomoides macrophthalmus	12	1				65	0.19	0.03	0.32		
Eucinostomus argenteus	8	1				45	0.19	0.24	0.15		
Sphyraena picudilla	6	1				35	0.15	0.34			
Friacanthus arenatus	12					60	0.13	0.13	0.12		
Sphyraena guachancho	3	1				20	0.12	0.26			
Haemulon steingachneri			1			5	0.12		0.21		
Prionotus punctatus	12					55	0.10	0.10	0.10		
Loligo plei	16					80	0.08	0.08	0.09		
Fistularia petimba	10					50	0.08	0.10	0.07		
Acanthostracion quadricornis	9					45	0.07	0.09	0.05		
Lutjanus purpureus	12					60	0.07	0.06	0.07		
Lagocephalus laevigatus	6					30	0.06	0.12	0.01		
Lutjanus griseus		1				5	0.06		0.10		
Diapterus rhombeus	1	1				10	0.06	0.12			
Saurida sp	6					30	0.05	0.01	0.07		
Mustelus norrisi	3					15	0.05		0.10		
Scomberomorus cavalla	5					20	0.05	0.11			
Acanthostracion polygonos	2					10	0.05		0.08		
Lutjanus vivanus	7					35	0.05	0.01	0.09		
Penaeus brasiliensis	5					25					
Penaeus notialis	5					25					
Other fish							0.77	0.79	0.80		
Sum all species							4.69	5.03	4.40		
Sum Snappers							1.75	1.39	2.03		
Sum Groupers							0.04	0.02	0.07		
Sum Grunts							0.16		0.29		
Sum Croakers							0.05	0.12			
Sum Seareams							0.24	0.28	0.22		
Sum Sharks							0.11	0.03	0.17		
Sum Rays							0.06	0.09	0.04		
Sum Squids							0.12	0.10	0.16		
Sum											
Sum shrimps (excl. SHRRAVI)											
Number of stations included in analysis, total and by depth strata							20	9	11		

SWEPT AREA ANALYSIS FROM STATION 1221 THROUGH STATION 1177
 VENEZUELA WEST SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS						% inci- dence	mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Lutjanus analis	26	13	2				49	0.51	0.82	0.46		
Iricmiurus lepturus	15		3	1			22	0.42	0.02	0.18	2.75	
Rhomboplites aurorubens	46	2	1	1			58	0.34	0.10	0.46	0.24	
Lutjanus synagris	35	9					52	0.31	0.38	0.34		
Upeneus parvus	56	5					73	0.24	0.21	0.24	0.31	
Pristipomoides macrophthalmus	44	3	1				57	0.23	0.01	0.19	1.05	
Eucinostomus argenteus	29	4					40	0.17	0.17	0.19		
Priacanthus arenatus	52	2					64	0.14	0.09	0.16	0.11	
Aluterus monoceros	20		1				25	0.13	0.02	0.19	0.02	
Lutjanus purpureus	41		1				49	0.13	0.09	0.17		
Loligo plei	46	2					58	0.12	0.09	0.16	0.01	
Calamus penna	19	2					25	0.10	0.21	0.07		
Uasyatis sp	1		1				2	0.10		0.16		
Senyraena guaChanco	10	2					14	0.08	0.23	0.02		
Haemulon aurolineatum	15		1				19	0.08	0.01	0.12		
Lutjanus vivanus	21	2					27	0.08	0.02	0.13		
Senyraena picudilla	17	2					23	0.07	0.18	0.04		
Priacanthus punctatus	22	1					28	0.06	0.06	0.04	0.22	
Calamus pennatula	20						24	0.06	0.09	0.06		
Lutjanus griseus	2	3					6	0.06		0.10		
Eucinostomus gula	7	2					11	0.06	0.17	0.02		
Loligo pealei	28						34	0.05	0.01	0.04	0.20	
Scomberomorus brasiliensis	6	1					8	0.05	0.07	0.04		
Scomberomorus cavalla	17						19	0.05	0.10	0.04		
Uasyatis americana	3		1				5	0.05	0.02	0.08		
Fistularia petimba	39						47	0.05	0.05	0.05	0.08	
Solenocera sp	1											
SOLENOCEPHALIDAE	1						1					
Xiphopenaeus kroyeri	1						1					
Penaeus brasiliensis	14						17			0.01		
Penaeus subtilis	2						2					
Penaeus notialis	10						12					
Penaeus sp	1						1					
Plesionika edwardsii	1						1					
Shrimps, small, non comm.	3						4					
Other fish								0.67	0.56	0.84	0.91	
Sum all species								4.41	3.78	4.60	5.90	
Sum Snappers								1.71	1.46	1.93	1.29	
Sum Groupers								0.06	0.01	0.08	0.21	
Sum Grunts								0.16	0.03	0.23	0.01	
Sum Croakers								0.01	0.05		0.02	
Sum Seabreams								0.18	0.31	0.16		
Sum Sharks								0.06	0.02	0.10	0.10	
Sum Rays								0.17	0.03	0.25	0.15	
Sum Squids								0.18	0.10	0.21	0.22	
Sum												
Sum shrimps (excl. SHRIMP)										0.01		
Number of stations included in analysis, total and by depth strata								83	23	51	9	

SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 1179
 VENEZUELA WEST SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 6 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	200-300m	300-400m	400-500m	500-800
<i>Polynixia lowei</i>	17	1				76	0.77	0.12	2.37	0.02	
<i>Arionna bondi</i>	2	1				15	0.69	0.01	2.30		
<i>Illex coindetti</i>	19	1	1			74	0.31	0.39	0.16	0.42	
<i>Steindachneria argenta</i>	15	2				63	0.29	0.09	0.60	0.42	0.04
<i>Pristipomoides macrophthalmus</i>	5	3				30	0.25	0.48			
SCIAENIDAE			1			4	0.24		0.83		
<i>Synagrops bellus</i>	11	1				44	0.16	0.20	0.02	0.17	0.65
<i>Pontinus longispinis</i>	14	1				56	0.14	0.20	0.11		
<i>Heilicolenus dactylopterus</i>	3		1			15	0.13		0.44	0.01	
<i>Antigonia capros</i>	8	1				33	0.10	0.19			
<i>Irichirus lepturus</i>	4					15	0.08	0.13			
<i>Chlorophthalmus</i> sp.	1	1				7	0.08		0.27		
<i>Bathynomus giganteus</i>	7					26	0.07		0.08	0.16	0.60
<i>Coelorrhinus caribbaeus</i>	12					44	0.06	0.05	0.08	0.06	0.01
<i>Antigonia combata</i>	5					19	0.06	0.11			
<i>Epigonus macrops</i>	2	1				11	0.06	0.10	0.03		
<i>Zenopsis ocellata</i>	6					22	0.05		0.15		
<i>Prionotus beani</i>	5					19	0.05	0.09			
<i>Pronotogrammus eos</i>	3	1				15	0.05	0.01	0.16		
<i>Plecticus robustus</i>	8					30	0.03		0.04	0.11	0.06
<i>Solenocera</i> sp.	11					41	0.03	0.05			
<i>Aristaeomorpha foliacea</i>	5					19	0.02		0.03	0.09	
<i>Fenaeopsis serrata</i>	3					11	0.01	0.01		0.02	
PENAEIDAE	3					11	0.01	0.01			
<i>Plesionika edwardsii</i>	8					30	0.01	0.01		0.01	
<i>Nematocarcinus rotundus</i>	2					7	0.01			0.03	0.65
Shrimps, small, non comm.	2					7	0.01	0.01			
S H K I M P S	2					7	0.01	0.01	0.01		
<i>Solenocera acuminata</i>	2					7		0.01			
SOLENCERIDAE	2					7		0.01			
<i>Nematopalaemon schmitti</i>	1					4					
<i>Xiphopenaeus kroyeri</i>	1					4				0.01	
<i>Parapenaeus longirostris</i>	3					11					
<i>Plesionika</i> sp.	3					11					
<i>Heterocarpus</i> sp.	2					7					
PANDALIDAE	1					4					
<i>Polopharis</i> sp.	1					4					

Sub totals

SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 259
 VENEZUELA GULF, FIRST SURVEY

ONLY STATIONS IN SECTOR 7 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	12	2				67	0.27	0.32	0.13		
Microgogonias furnieri	2		1			17	0.26	0.36			
Isopisthus parvipinnis	1		1			6	0.26	0.37			
Loligo plei	5	1				33	0.22	0.06	0.64		
Scomberomorus brasiliensis	6	1				39	0.19	0.27			
Stellifer sp			1				0.19	0.26			
Xiphopenaeus kroyeri		1				6	0.16	0.22			
Cynoscion acoupa	1	1				11	0.16	0.23			
Peprilus paru	9	1				56	0.15	0.02	0.49		
Dasyatis geijskesi	1	1				11	0.12	0.17			
Loligo sp		1				6	0.10		0.35		
Lutjanus synagris	1	1				11	0.10	0.14			
Cynoscion virescens			1				0.08	0.10			
Sphyræna picudilla	3	1				22	0.07		0.23		
Loligo pealei	6					33	0.05	0.01	0.16		
Priacanthus arenatus	5					28	0.05	0.01	0.15		
Penaeus schmitti	2					11	0.02	0.03			
Penaeus brasiliensis	2					11					
Penaeus notialis	3					17					
Other fish							0.49	0.53	0.41		
Sum all species							2.94	3.10	2.56		
Sum Snappers							0.17	0.15	0.24		
Sum Groupers											
Sum Grunts							0.01	0.01	0.01		
Sum Croakers							1.09	1.50	0.02		
Sum Seabreams							0.02	0.03			
Sum Sharks							0.03	0.04			
Sum Rays							0.16	0.22			
Sum Squids							0.39	0.09	1.15		
Sum											
Sum shrimps (excl. SHRAA01)							0.18	0.25			
Number of stations included in analysis, total and by depth strata							18	13	5		

SWEPT AREA ANALYSIS FROM STATION 455 THROUGH STATION 567
 VENEZUELA GULF, SECOND SURVEY

ONLY STATIONS IN SECTOR 7 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Irichiurus lepturus</i>	10	5		1	1	53	1.90	2.66	0.15		
<i>Sphyræna picudilla</i>	11	3	1			50	0.65	0.56	0.87		
<i>Peprilus paru</i>	11	2	1			47	0.46	0.64	0.02		
<i>Micropogonias turnieri</i>	13	3				40	0.33	0.48			
<i>Priacanthus arenatus</i>	12	3				50	0.27	0.04	0.81		
<i>Lutjanus synagris</i>	13	2				50	0.22	0.15	0.36		
<i>Loligo plei</i>	13	1				47	0.17	0.22	0.06		
<i>Lutjanus analis</i>	6	1				23	0.17	0.01	0.56		
<i>Rhomboplites aurorubens</i>	6	1				23	0.13	0.02	0.41		
<i>Loligo pealei</i>	17					57	0.12	0.14	0.07		
<i>Synodus poeyi</i>	13					43	0.11	0.08	0.18		
<i>Sphyræna quachancho</i>	7	1				27	0.11	0.14	0.05		
<i>Xiphopenaeus kroyeri</i>	5	1				20	0.11	0.16			
<i>Eucinostomus argenteus</i>	10	1				37	0.10	0.08	0.14		
<i>Ostenosciaena gracilicirrus</i>	3	2				17	0.09	0.13			
<i>Scomberomorus cavalla</i>	5	1				20	0.08	0.03	0.17		
<i>Oxyatis guttata</i>	2	1				10	0.07	0.09			
<i>Haemulon aurolineatum</i>	2	1				10	0.07	0.10			
<i>Macraron ancylodon</i>	3					10	0.06	0.08			
Sciaenidae juveniles	1	1				7	0.06	0.09			
<i>Lutjanus purpureus</i>	7					20	0.06	0.04	0.10		
<i>Cynoscion leiarchus</i>	5					17	0.05	0.06	0.01		
<i>Cynoscion microlepidotus</i>	5					17	0.05	0.07			
<i>Pomatomus saltatrix</i>	3	1				13	0.05	0.07			
<i>Haemulon steindachneri</i>	6					20	0.05	0.02	0.13		
<i>Hematopaiaemon schmitti</i>	2					7	0.01	0.02			
<i>Penaeus schmitti</i>	9					30	0.01	0.01			
<i>Penaeus brasiliensis</i>	5					17	0.01	0.01			
<i>Penaeus notialis</i>	13					43	0.01	0.01			
Shrimps, small, non comm.	1					3	0.01	0.01			
Other fish							0.74	0.77	0.73		
Sum all species							6.33	6.99	4.82		
Sum Snappers							0.62	0.22	1.58		
Sum Groupers							0.07	0.03	0.19		
Sum Grunts							0.16	0.17	0.14		
Sum Croakers							0.74	1.06	0.02		
Sum Seabreams							0.05	0.01	0.13		
Sum Sharks							0.05	0.07	0.01		
Sum Rays							0.08	0.11			
Sum Squids							0.31	0.39	0.13		
Sum											
Sum shrimps (excl. SHRAA01)							0.15	0.21			
Number of stations included in analysis, total and by depth strata							30	21	9		

SWEPT AREA ANALYSIS FROM STATION 735 THROUGH STATION 861
 VENEZUELA GULF, THIRD SURVEY

ONLY STATIONS IN SECTOR 7 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
Sphyræna picuda	12			1		52	0.67	0.97	0.21		
Trichurus lepturus	10		1			40	0.36	0.59	0.01		
Upeneus parvus	11	3				56	0.36	0.12	0.71		
Lutjanus analis	7		1			32	0.28	0.12	0.52		
Rhizoprionodon porosus	2		1			12	0.19		0.47		
Micropogonias furnieri	9	1				40	0.19	0.32			
Synodus pœyi	16	1				64	0.18	0.16	0.22		
Priacanthus arenatus	11	1				48	0.16	0.06	0.32		
Eucinostomus argenteus	13	1				56	0.16	0.11	0.23		
Scomberomorus cavalla	5	1				24	0.14	0.09	0.22		
Lutjanus synagris	12					48	0.13	0.10	0.18		
Pristipomoides macrophthalma	13					52	0.11	0.02	0.24		
Lepopidium sp	1	1				8	0.10		0.25		
Sphyræna quachancho	10					40	0.09	0.11	0.07		
Cynoscion leiarchus	3	1				16	0.09	0.14			
Lepopidium profundorum	8					32	0.09	0.09	0.07		
Loligo pealei	11					44	0.07	0.03	0.13		
Knoblochites aurorubens	7					28	0.07	0.05	0.09		
Scomberomorus brasiliensis	6					24	0.06	0.11			
Diapterus rhombeus	5	1				24	0.06	0.10	0.01		
Prionotus punctatus	10					32	0.05	0.07	0.02		
Loliguncula brevis	4					16	0.05	0.09			
Calamus penna	2	1				12	0.05	0.07	0.02		
Penaeus brasiliensis	8					32	0.03	0.02	0.03		
Penaeus notialis	8					32	0.02	0.01	0.03		
Shrimps, small, non comm.	3					12	0.02	0.02	0.01		
Penaeus subtilis	6					24	0.01	0.01			
Penaeus schmitti	1					4					
Other fish							0.83	0.72	1.03		
Sum all species							4.62	4.30	5.09		
Sum Snappers							0.66	0.34	1.15		
Sum Groupers							0.08	0.03	0.12		
Sum Grunts							0.13	0.04	0.25		
Sum Croakers							0.32	0.52	0.02		
Sum Seabreams							0.09	0.10	0.07		
Sum Sharks							0.19		0.47		
Sum Rays							0.01	0.02			
Sum Squids							0.16	0.16	0.14		
Sum											
Sum shrimps (excl. SHRAB01)							0.06	0.04	0.06		
Number of stations included in analysis, total and by depth strata							25	15	10		

SWEEP AREA ANALYSIS FROM STATION 1078 THROUGH STATION 1179
 VENEZUELA GULF, FOURTH SURVEY

ONLY STATIONS IN SECTOR 7 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	7			1		50	0.69	0.92			
Priacanthus arenatus	5	1				38	0.12	0.01	0.46		
Dasyatis guttata		1					0.10	0.14			
Dasyatis americana	2	1				13	0.09	0.12			
Lutjanus synagris	9					56	0.09	0.10	0.07		
Synodus roetens	9					56	0.08	0.10	0.04		
Peprilus paru	5					31	0.07	0.02	0.19		
Loligo plei	9					56	0.06	0.03	0.15		
Scomberomorus brasiliensis	5					31	0.06	0.06	0.04		
Scomberomorus cavalla	5					25	0.06	0.05	0.09		
Micropogonias furnieri	6					38	0.06	0.08			
Upeneus parvus	8					50	0.06	0.01	0.23		
Eucinostomus argenteus	7					44	0.06	0.04	0.10		
Trachypenaues constrictus	1					6	0.02	0.02			
Penaeus notialis	10					63	0.01	0.01			
Xiphopenaeus kroyeri	1					6					
Trachypenaues sp	2					13					
Penaeus brasiliensis	4					25			0.01		
Penaeus subtilis	2					13					
Other fish							0.52	0.50	0.58		
Sum all species							2.15	2.21	1.96		
Sum Snappers							0.17	0.14	0.24		
Sum Groupers							0.02	0.01	0.02		
Sum Grunts											
Sum Croakers							0.06	0.08			
Sum Seabreams							0.03	0.04			
Sum Sharks							0.01		0.04		
Sum Rays							0.19	0.26			
Sum Squids							0.10	0.06	0.26		
Sum											
Sum shrimps (excl. SHRAA01)							0.03	0.03	0.01		
Number of stations included in analysis, total and by depth strata							16	12	4		

SWEPT AREA ANALYSIS FROM STATION 122 THROUGH STATION 1179
 VENEZUELA GULF, ALL SURVEYS

ONLY STATIONS IN SECTOR 7 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Trichiurus lepturus	39	7	1	2	1	52	0.92	1.31	0.07		
Sphyraena picudilla	32	4	1	1		43	0.42	0.44	0.40		
Micropogonias furnieri	30	4	1			35	0.23	0.33			
Peprilus paru	33	3	1			40	0.21	0.25	0.12		
Priacanthus arenatus	33	5				43	0.17	0.03	0.47		
Lutjanus analis	16	1	1			20	0.15	0.04	0.39		
Lutjanus synagris	35	3				43	0.15	0.13	0.19		
Upeneus parvus	33	3				40	0.12	0.03	0.31		
Loligo plei	32	2				38	0.11	0.10	0.16		
Synodus poeyi	31	1				35	0.09	0.07	0.14		
Eucinostomus argenteus	30	2				36	0.09	0.06	0.14		
Loligo pealei	40					44	0.08	0.06	0.11		
Scomberomorus brasiliensis	20	1				24	0.08	0.12	0.01		
Scomberomorus cavalla	17	2				20	0.08	0.05	0.15		
Sphyraena guachancho	22	1				26	0.07	0.08	0.04		
Xiphopenaeus kroyeri	6	2				9	0.07	0.10			
Rhomboplites aurorubens	20	1				22	0.07	0.02	0.19		
Khizopriodon porosus	4		1			6	0.06	0.01	0.17		
Isopisthus parvipinnis	2		1			3	0.05	0.08			
Pristipomoides macrophtalmus	27					30	0.05	0.01	0.14		
Penaeus schmitti	12					13	0.01	0.01			
Penaeus brasiliensis	19					21	0.01	0.01	0.01		
Penaeus notialis	34					38	0.01	0.01	0.01		
Shrimps, small, non comm.	4					4	0.01	0.01			
Nematopalaemon schmitti	2					2		0.01			
Trachypenaeus constrictus	1					1		0.01			
Trachypenaeus sp	2					2					
Penaeus subtilis	8					9					
Other fish							1.10	1.20	0.86		
Sum all species							4.41	4.58	4.08		
Sum Snappers							0.46	0.22	0.99		
Sum Groupers							0.05	0.02	0.12		
Sum Grunts							0.08	0.06	0.14		
Sum Croakers							0.56	0.84			
Sum Seabreams							0.06	0.05	0.07		
Sum Sharks							0.08	0.03	0.19		
Sum Rays							0.11	0.14			
Sum Squids							0.25	0.21	0.33		
Sum											
Sum shrimps (excl. SHKAA01)							0.10	0.15	0.02		
Number of stations included in analysis, total and by depth strata							89	61	28		



SNEPT AREA ANALYSIS FROM STATION 260 THROUGH STATION 298
 COLUMBIA EAST SHELF, FIRST SURVEY

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/AM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Loligo pealei	3	4	2			53	1.16	1.48		0.87	
Lutjanus analis	3	3				40	0.49			0.92	
Loligo plei	4	3				40	0.48			0.89	
Sphyrna picudilla	6	1	1			53	0.43	0.27		0.57	
Micropegonias furnieri	4		1			33	0.30	0.63			
Sphyrna lewini	2	1				20	0.28	0.09		0.44	
Lutjanus synagris	8	1				60	0.27	0.10		0.42	
Iricniurus lepturus	4	1				27	0.18	0.06		0.28	
Carcharias porosus	3	1				27	0.17	0.22		0.13	
Conodon nootii	1	1				13	0.17	0.34		0.01	
Priacanthus cruentatus		1				7	0.16	0.34			
Xiphopenaeus kroyeri	1	1				13	0.14	0.30			
Priacanthus arenatus	9					47	0.13	0.03		0.21	
Haemulon aurolineatum	5	1				40	0.13			0.24	
Balistes caprisicus	2	1				20	0.13	0.23		0.05	
Haemulon boschnae	2	1				20	0.12	0.08		0.15	
Rhomboplites aurorubens	8					47	0.09	0.03		0.14	
Upeneus parvus	7					47	0.08	0.01		0.15	
Scomberomorus cavalla	2					13	0.07			0.13	
Sphyrna guachancho	3					20	0.06	0.13			
Calamus pennatula	1					7	0.06			0.11	
Mycteroperca bonaci	2					13	0.06			0.12	
Isopisthus parvipinnis	2					13	0.06			0.12	
Peprius paru	4					20	0.05			0.11	
Vairdiella sp	3					13	0.05			0.11	
Oasyatis guttata	1					7	0.05			0.10	
Penaeus schmitti	2					13					
Penaeus brasiliensis	1					7				0.01	
Penaeus subtilis	1					7				0.01	
Penaeus notialis	2					13					
Other fish							0.49	0.38		0.63	
Sum all species							5.86	5.17		6.47	
Sum Snappers							0.93	0.13		1.63	
Sum Groupers							0.12			0.23	
Sum Grunts							0.46	0.50		0.41	
Sum Croakers							0.45	0.96			
Sum Seabreams							0.10			0.19	
Sum Sharks							0.48	0.32		0.61	
Sum Rays							0.05	0.11			
Sum Squids							1.64	1.49		1.76	
Sum											
Sum shrimps (excl. SHKAAU1)							0.14	0.31		0.01	
Number of stations included in analysis, total and by depth strata							15	7		8	

SNEPT AREA ANALYSIS FROM STATION 568 THROUGH STATION 608
COLUMBIA EAST SHELF, SECOND SURVEY

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					X inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Rhomboplites aurorubens</i>	12	3	1			75	0.70	0.10	1.11		
<i>Lutjanus analis</i>	8	5				65	0.61	0.57	0.68		
Sciaenidae juveniles			1			5	0.45		0.75		
<i>Haemulon aurolineatum</i>	5	1	1			35	0.44		0.73		
<i>Lutjanus synagris</i>	7	3				50	0.43	0.38	0.49		
<i>Ballistes capriscus</i>	4	2	1			35	0.39	1.01	0.07		
<i>Calamus pennatula</i>	11	1				60	0.26	0.13	0.36		
<i>Lutjanus purpureus</i>	8	1				45	0.22	0.02	0.35		
<i>Haemulon boschmae</i>	5	1				25	0.18	0.01	0.30		
<i>Eucinostomus argenteus</i>	13					65	0.18	0.18	0.20		
<i>Mycteroperca bonaci</i>		2				10	0.17		0.28		
<i>Upeneus parvus</i>	14					70	0.17	0.20	0.14	0.28	
<i>Lachnolaimus maximus</i>	4	1				25	0.16	0.27	0.11		
<i>Sphyræna picudilla</i>	5	1				30	0.12	0.01	0.19		
<i>Priacanthus arenatus</i>	10					50	0.12	0.09	0.15		
<i>Scomberomorus cavalla</i>	7					35	0.09	0.11	0.08		
<i>Pristipomoides macrophthalmus</i>	10					50	0.09		0.09	0.63	
<i>Leiigo pealei</i>	6					30	0.06	0.04	0.05	0.25	
<i>Epinephelus niveatus</i>	2					10	0.06		0.10		
<i>Pomacanthus paru</i>	6					30	0.06	0.06	0.07		
<i>Pomacanthus arcuatus</i>	2					10	0.06	0.12	0.03		
<i>Aluterus monoceros</i>	3					15	0.06	0.17			
<i>Trichiurus lepturus</i>	5					25	0.05		0.07	0.17	
<i>Knizoprionodon porosus</i>	1					5	0.05		0.08		
<i>Ballistes vetula</i>	5					25	0.05	0.10	0.03		
<i>Penaeus brasiliensis</i>	1					5					
<i>Penaeus notialis</i>	1					5					
Other fish							0.56	0.56	0.43	2.13	
Sum all species							5.79	4.13	6.94	3.46	
Sum Snappers							2.11	1.18	2.76	0.63	
Sum Groupers							0.31	0.01	0.51	0.03	
Sum Grunts							0.63	0.01	1.05		
Sum Croakers							0.45		0.75	0.02	
Sum Seabreams							0.29	0.19	0.38		
Sum Sharks							0.11	0.05	0.09	0.87	
Sum Rays											
Sum Squids							0.09	0.09	0.07	0.25	
Sum											
Sum shrimps (excl. SHKAA01)											
Number of stations included in analysis, total and by depth strata							20	7	12	1	

SWEPT AREA ANALYSIS FROM STATION 862 THROUGH STATION 918
 COLOMBIA EAST SHELF, THIRD SURVEY

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
<i>Rhomboplites aurorubens</i>	16	2	1			68	0.42		0.59		
<i>Lutjanus purpureus</i>	11	1	1			46	0.41	0.03	0.56		
<i>Lutjanus analis</i>	9	3				43	0.30	0.32	0.30		
<i>Lutjanus synagris</i>	16	3				64	0.27	0.32	0.27		
<i>Haemulon aurolineatum</i>	8	1	1			36	0.24	0.01	0.34		
<i>Calamus pennatula</i>	18	1				68	0.23	0.41	0.18		
<i>Eucinostomus argenteus</i>	22					79	0.21	0.16	0.24		
<i>Carcharhinus porosus</i>	1		1			7	0.14	0.55			
<i>Pristipomoides macrophthalmaus</i>	13	1				50	0.13		0.17	0.30	
<i>Upeneus parvus</i>	19					68	0.12	0.03	0.15		
PERCICHTHYDAE		1				4	0.11			3.00	
<i>Sphyræna picudilla</i>	7	1				29	0.10	0.02	0.14	0.04	
<i>Priacanthus arenatus</i>	20					68	0.10	0.06	0.12		
<i>Haemulon boschmae</i>	9	1				36	0.08	0.07	0.09		
<i>Lachnolaimus maximus</i>	4	1				18	0.08		0.11		
<i>Mustelus canis</i>	6					21	0.07		0.10		
<i>Ocyurus chrysurus</i>	3	1				14	0.05	0.15	0.02		
<i>Penaeus brasiliensis</i>	5					18	0.02		0.03		
<i>Penaeus notialis</i>	4					14	0.01		0.02		
<i>Solenocera</i> sp	1					4				0.03	
SOLENERIDAE	1					4					0.02
<i>Penaeus subtilis</i>	1					4					0.02
<i>Plesionika edwardsii</i>	1										
<i>Aristaeomorpha foliacea</i>	1										0.01
Shrimps, small, non comm.	1					4					0.04
Other fish							0.55	0.80	0.40	1.87	
Sum all species							3.64	2.93	3.83	5.31	
Sum Snappers							1.59	0.83	1.92	0.30	
Sum Groupers							0.02	0.05	0.01	0.02	
Sum Grunts							0.33	0.08	0.45		
Sum Croakers							0.04	0.16			
Sum Seabreams							0.27	0.45	0.22		
Sum Sharks							0.21	0.55	0.10	0.04	
Sum Rays								0.01			
Sum Squids							0.05	0.05	0.05		
Sum											
Sum shrimps (excl. SHKAA01)							0.03		0.05	0.06	
Number of stations included in analysis, total and by depth strata							28	7	20	1	

SWEPT AREA ANALYSIS FROM STATION 1180 THROUGH STATION 1210
 COLOMBIA EAST SHELF, FOURTH SURVEY

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/mm ³	Mean densities by bottom depth strata t/mm ³			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
Lutjanus synagris	10	2		1		68	1.91	3.99	0.44		
Kalistes capricus	4			1		26	1.09	2.59			
Lutjanus purpureus	5			1		32	0.70		1.33		
Lactophrys trigonus	1			1		11	0.55	1.31			
Rhomboplites aurorubens	10	2	1			63	0.55	0.26	0.79	0.51	
Lutjanus analis	3	4	1			42	0.55	0.32	0.79		
Haemulon aurolineatum	9	1	1			58	0.40	0.45	0.39		
Lucinostomus argenteus	12	2				74	0.29	0.15	0.43		
Calamus pennatula	14					74	0.24	0.17	0.31		
Upeneus parvus	14					74	0.24	0.07	0.33	0.71	
Pristipomoides macrophthalmus	9	1				53	0.16		0.15	1.63	
Epinephelus morio	6					32	0.13	0.12	0.15		
Nycteroperca bonaci	2	1				16	0.10		0.19		
Loligo plei	7	1				42	0.09	0.04	0.13	0.01	
Mustelus norrisi	5					26	0.07		0.09	0.55	
Aetobatus narinari		1				5	0.07	0.17			
Priacanthus arenatus	9					47	0.07	0.04	0.10		
Haemulon boschnae	6					32	0.07	0.12	0.05		
Lutjanus vivanus	5	1				32	0.07		0.14		
Saurida normani	6					32	0.06		0.08	0.38	
Iriichthys lepturus	2					11	0.05	0.12			
Peprius paru	2					11	0.05	0.11			
Epinephelus flavolimbatus	1					5	0.05			0.94	
Scorpaenopsis cavalla	4					16	0.05	0.10	0.01		
Acanthostracion quadricornis	8					42	0.05	0.07	0.04		
Penaeus brasiliensis	4					21	0.01			0.07	
Penaeus notialis	3					16					
Other fish							0.51	0.67	0.52	0.25	
Sum all species							8.18	10.87	6.46	5.05	
Sum Snappers							4.01	4.60	3.74	2.14	
Sum Groupers							0.31	0.12	0.39	0.94	
Sum Grunts							0.48	0.58	0.45		
Sum Croakers								0.01			
Sum Seabreams							0.25	0.17	0.33		
Sum Sharks							0.10	0.04	0.11	0.55	
Sum Rays							0.07	0.18			
Sum Squids							0.12	0.06	0.17	0.08	
Sum											
Sum shrimps (excl. SHKAA01)							0.01			0.07	
Number of stations included in analysis, total and by depth strata							19	8	10	1	

SNEFT AREA ANALYSIS FROM STATION 260 THROUGH STATION 1210
 COLOMBIA EAST SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M GROUPS					% inci- dence	Mean dens. t/nm ²	mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000 >1000			- 50m	50-120m	120-200m	200-201
Lutjanus synagris	43	9		1		60	0.67	1.20	0.38		
Knomoplates aurorubens	46	8	3			63	0.46	0.09	0.71	0.17	
Lutjanus analis	25	15	1			48	0.46	0.31	0.59		
Balistes capricornis	16	3	1	1		24	0.37	0.96	0.03		
Lutjanus purpureus	27	2	1	1		36	0.34	0.01	0.57		
Haemulon aurolineatum	28	4	3			41	0.29	0.12	0.42		
Loligo pealei	24	4	2			34	0.23	0.34	0.17	0.08	
Calamus pennatula	45	2				55	0.20	0.16	0.24		
Eucinostomus argenteus	50	2				60	0.19	0.14	0.23		
Upeneus parvus	57					66	0.16	0.10	0.18	0.33	
Sphyrna picudilla	23	3	1			31	0.14	0.07	0.19	0.01	
Pristigaster macrophthalmus	37	3				47	0.14		0.18	0.85	
Lactophrys trigonus	6			1		8	0.13	0.36			
Loligo plet	27	4				35	0.12	0.03	0.18		
Sciaenidae juveniles			1			1	0.11		0.18		
Haemulon boschmae	23	3				30	0.11	0.06	0.14		
Priacanthus arenatus	51					56	0.10	0.07	0.14		
Carcharhinus porosus	4	1	1			7	0.08	0.17	0.02		
Trichiurus lepturus	16	1				19	0.07	0.09	0.06	0.06	
Mycteroperca bonaci	5	3				9	0.07		0.12		
Micropogonias furnieri	7	1	1			10	0.07	0.18			
Lachnolaimus maximus	9	2				13	0.07	0.06	0.08		
Sphyrna lewini	2	1				3	0.05	0.02	0.07		
Scomberomorus cavalla	15					17	0.05	0.05	0.05		
Xiphenopus kroyeri	1	1				2	0.02	0.07			
Penaeus brasiliensis	12					14	0.01		0.01	0.02	
Penaeus notialis	12					14	0.01		0.01		
Solenocera sp	1					1				0.01	
SULENOCERIDAE	1					1					
Penaeus schmitti	3					3					
Penaeus subtilis	2					2				0.01	
Plesionika edwardsii	1					1					
Aristaeomorpha foliacea	1					1					
Shrimps, small, non comm.	1					1				0.01	
S H R I M P S	1					1					
Other fish							0.86	1.16	0.64	3.02	
Sum all species							5.58	5.82	5.59	4.57	
Sum Snappers							2.14	1.68	2.51	1.02	
Sum Groupers							0.18	0.03	0.25	0.33	
Sum Grunts							0.47	0.32	0.58		
Sum Croakers							0.20	0.28	0.18		
Sum Seabreams							0.23	0.19	0.27		
Sum Sharks							0.21	0.21	0.18	0.48	
Sum Rays							0.03	0.07			
Sum Squids							0.35	0.38	0.35	0.10	
Sum											
Sum shrimps (excl. SHKRAU)							0.04	0.07	0.02	0.04	
Number of stations included in analysis, total and by depth strata							86	32	51	3	

SECT AREA ANALYSIS FROM STATION 260 THROUGH STATION 1210
 COLUMBIA EAST SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 8 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS						% inci- dence	Mean dens. t/ha ²	mean densities by bottom depth strata t/ha ²			
	<10	10-30	30-100	100-300	300-1000	>1000			200-300m	300-400m	400-500m	500-800
Steindachneria argenta	5	3	1				90	1.11	0.90	0.63	1.76	0.08
Polymixia lowei	5	2					70	0.46	0.76	0.11	0.51	
Squalus sp	1	1					20	0.19	0.04	0.90		
Coelorrinchus caribbaeus	7						70	0.18		0.12	0.28	0.45
Synagrops bellus	4	1					50	0.17	0.16		0.32	
Solenocera sp	5						50	0.16	0.30	0.03	0.16	
Lepidopus caudatus	5						50	0.15	0.09	0.27	0.18	
Benthodesmus tenuis	5						50	0.12		0.02	0.28	0.05
GATROPODS			1				10	0.11				1.08
Nezumia cyrano	1						10	0.08			0.20	
Miscellaneous fish	5						50	0.07	0.18	0.03	0.02	
Epinephelus sp	1						10	0.06	0.21			
Pantinus longispinis	5						50	0.06	0.13	0.09		
Antigonia capros	2						20	0.06	0.19			
PENAEIDAE	4						40	0.05	0.05	0.04	0.06	
Argentina sp.	7						70	0.05	0.05	0.04	0.06	
Synagrops sp.	2						20	0.05	0.15			
CRANGONIDAE	1						10	0.04			0.11	
Plesionika edwardsianus	3						30	0.04			0.09	
Plesionika robustus	4						40	0.01	0.02			0.07
Plesionika edwardsii	4						40	0.01	0.02	0.03		
Plesionika sp	1						10	0.01	0.03			
Aristaeomorpha foliacea	2						20	0.01				0.03
Solenocera acuminata	1						10			0.01		
PASIPHAELIDAE	1						10					
Penaeopsis serrata	1						10					
Parapenaeus sp	1						10		0.01			
PANDALIDAE	2											
Exhyppolyasmata oplophoroides	1						10					
Glyphocrangon neglecta	1						10					0.02
Aristaeomorpha sp	1						10				0.01	
Shrimps, small, non comm.	1						10		0.01			
Other fish								0.59	0.78	0.74	0.31	0.87
Sum all species								3.84	4.08	3.06	4.35	2.65
Sum Snappers								0.01	0.02			
Sum Groupers								0.09	0.21	0.15		
Sum Grunts												
Sum Croakers												
Sum Seabreams												
Sum Sharks								0.24	0.09	1.06		
Sum Rays								0.01		0.03		0.03
Sum Squids								0.06	0.09	0.11	0.01	0.11
Sum												
Sum shrimps (excl. SHRIMP)								0.33	0.43	0.11	0.43	0.12
Number of stations included in analysis, total and by depth strata								10	3	2	4	1

SWEPT AREA ANALYSIS FROM STATION 260 THROUGH STATION 298
 COLOMBIA WEST SHELF, FIRST SURVEY

ONLY STATIONS IN SECTOR 9 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/NN GROUPS					% inci- dence	Mean dens. t/nn ²	Mean densities by bottom depth strata t/nn ²				
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus analis			1				11	0.27			1.22	
Lutjanus synagris	7	1					89	0.26	0.07		0.95	
Scomberomorus cavalla	3	1					44	0.16	0.19		0.04	
Khizopriodon porosus		5					56	0.15	0.14		0.16	
Diapterus rhombeus		3					33	0.11	0.14			
Aluterus monoceros		2					22	0.08			0.34	
Rhomboplites aurorubens		4					44	0.08	0.02		0.27	
Sphyrna tiburo		1					11	0.05	0.06			
Ctenosciaena gracilicirrhus		1					11	0.05	0.06			
Xiphopenaeus kroyeri		1						0.02	0.02			
Penaeus schmitti		2					22					
Penaeus notialis		4					44					
Other fish								0.39	0.41		0.44	
Sum all species								1.62	1.11		3.42	
Sum Snappers								0.65	0.12		2.53	
Sum Groupers												
Sum Grunts											0.01	
Sum Croakers								0.08	0.10			
Sum Seabreams												
Sum Sharks								0.24	0.25		0.16	
Sum Rays												
Sum Squids								0.05	0.04		0.12	
Sum												
Sum shrimps (excl. SHKAROLI)								0.02	0.02			
Number of stations included in analysis, total and by depth strata								9	7		2	

SWEPT AREA ANALYSIS FROM STATION 568 THROUGH STATION 608
 COLOMBIA WEST SHELF, SECOND SURVEY

ONLY STATIONS IN SECTOR 9 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/mm ³	Mean densities by bottom depth strata t/mm ³			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
Lutjanus synagris	12					80	0.24	0.16	0.33	0.08	
Eucinostomus argenteus	11					73	0.20	0.09	0.34		
Lutjanus analis	5	1				40	0.19	0.31	0.09		
Rhomboplites aurorubens	13					87	0.13	0.08	0.19	0.08	
Pristipomoides macrophthalmus	9					53	0.09		0.08	0.71	
Balistes capricus	7					47	0.09	0.17	0.03		
Upeneus parvus	10					67	0.07	0.03	0.12		
Lutjanus purpureus	7					47	0.07	0.07	0.09		
Loligo plei	8					53	0.06		0.13		
Khizopriemodon latandii	3					13	0.05		0.10		
Penaeus notialis	8					53	0.03	0.02	0.04		
Shrimps, small, non comm.	1					7	0.01		0.02		
Solenocera sp	2					13					
PENAEIDAE	1										
Plesionika sp	1					7				0.01	
Other fish							0.56	0.48	0.53	0.96	
Sum all species							1.79	1.41	2.09	1.84	
Sum Snappers							0.76	0.67	0.81	0.87	
Sum Groupers							0.06	0.06	0.04	0.12	
Sum Brunts							0.04	0.09			
Sum Croakers							0.03		0.06	0.06	
Sum Seabreams									0.01		
Sum Sharks							0.08	0.01	0.11	0.08	
Sum Rays							0.02	0.01		0.15	
Sum Squids							0.09	0.01	0.16	0.20	
Sum											
Sum shrimps (excl. SHRAA01)							0.03	0.02	0.04	0.01	
Number of stations included in analysis, total and by depth strata							15	7	7	1	

SWEPT AREA ANALYSIS FROM STATION 8621HKOUGH STATION 918
 COLOMBIA WEST SHELF, THIRD SURVEY

ONLY STATIONS IN SECTOR 9 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/MM GROUPS					% inci- dence	Mean dens. t/nm ²	Mean densities by bottom depth strata t/nm ²			
	<10	10-30	30-100	100-300	300-1000			>1000	- 50m	50-120m	120-200m	200-201
<i>Rhomboplites aurorubens</i>	9	1	1			73	0.52	0.55	0.47		
<i>Eucinostomus argenteus</i>	9	1				67	0.31	0.40	0.14		
<i>Lutjanus analis</i>	7					40	0.19	0.28			
<i>Lutjanus synagris</i>	7					47	0.17	0.24	0.04		
<i>Balistes vetula</i>	7	1				53	0.14	0.21	0.01		
<i>Lutjanus purpureus</i>	4					27	0.07	0.06	0.09		
<i>Sphyræna picudilla</i>	2					13	0.06	0.09			
<i>Ocyurus chrysurus</i>	1					7	0.06	0.09			
<i>Loligo plei</i>	8					53	0.05	0.06	0.04		
<i>Upeneus parvus</i>	9					60	0.05	0.06	0.04		
<i>Balistes capriscus</i>	3					20	0.05	0.07			
<i>Penaeus notialis</i>	4					20	0.01	0.01	0.01		
Other fish							0.41	0.48	0.31		
Sum all species							2.09	2.60	1.15		
Sum Snappers							1.05	1.28	0.62		
Sum Groupers							0.03	0.03	0.01		
Sum Brunts							0.01	0.02			
Sum Croakers							0.01	0.01			
Sum Seabreams							0.01	0.02			
Sum Sharks							0.04		0.15		
Sum Rays											
Sum Squids							0.06	0.06	0.07		
Sum											
Sum shrimps (excl. SHKAA01)							0.01	0.01	0.01		
Number of stations included in analysis, total and by depth strata							15	10	5		

SWEPT AREA ANALYSIS FROM STATION 260 THROUGH STATION 1210
 COLUMBIA WEST SHELF, ALL SURVEYS

ONLY STATIONS IN SECTOR 9 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS						X inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000	>1000			- 50m	50-120m	120-200m	200-201
Rhomboplites aurorubens	26	1	1				72	0.27	0.26	0.30	0.08	
Lutjanus synagris	26	1					69	0.22	0.17	0.32	0.08	
Lutjanus analis	12	2					33	0.21	0.21	0.22		
Eucinostomus argenteus	20	1					54	0.20	0.19	0.22		
Lutjanus purpureus	12						31	0.06	0.04	0.08		
Balistes vetula	9	1					26	0.06	0.09			
Balistes capricus	15						38	0.06	0.08	0.02		
Loligo piei	16						41	0.05	0.03	0.08		
Khizoprionodon porosus	8						21	0.05	0.05	0.05		
Scomberomorus cavalla	7	1					21	0.05	0.06	0.03		
Upeneus parvus	22						56	0.05	0.04	0.08		
Penaeus notialis	16						41	0.01	0.01	0.02		
Solenocera sp	2						5					
Xiphopenaeus kroyeri	1								0.01			
Penaeus schmitti	2						5					
PENAEIDAE	1											
Plesionika sp	1						3				0.01	
Shrimps, small, non comm.	1						3			0.01		
Other fish								0.53	0.55	0.53	1.67	
Sum all species								1.82	1.79	1.96	1.84	
Sum Snappers								0.85	0.77	0.99	0.87	
Sum Groupers								0.02	0.04	0.03	0.12	
Sum Grunts								0.02	0.03			
Sum Croakers								0.02	0.03	0.03	0.06	
Sum Seabreams									0.01	0.01		
Sum Sharks								0.10	0.08	0.14	0.08	
Sum Rays											0.15	
Sum Squids								0.08	0.05	0.12	0.20	
Sum												
Sum shrimps (excl. SHRRAVI)								0.01	0.02	0.02	0.01	
Number of stations included in analysis, total and by depth strata								39	24	14	1	

SWEPT AREA ANALYSIS FROM STATION 260 THROUGH STATION 1210
 COLOMBIA WEST SLOPE, ALL SURVEYS

ONLY STATIONS IN SECTOR 9 ARE INCLUDED

SPECIES NAME	CATCH DISTRIBUTION BY KG/M ² GROUPS					% inci- dence	Mean dens. t/m ²	Mean densities by bottom depth strata t/m ²			
	<10	10-30	30-100	100-300	300-1000			>1000	200-300m	300-400m	400-500m	500-800
Sciaena bathytatos			1				1.57		1.57		
Nealotus tripes		1					0.09		0.09		
Argentina sp.		1					0.09		0.09		
CYNOGLOSSIDAE		1					0.07		0.07		
MORIDAE		1					0.06		0.06		
Solenocera sp		1					0.03		0.03		
Xiphopenaeus kroyeri		1					0.01		0.01		
Penaeus subtilis		1									
Other fish							0.30		0.30		
Sum all species							2.22		2.22		
Sum Snappers											
Sum Groupers											
Sum Grunts											
Sum Croakers							1.57		1.57		
Sum seabreams											
Sum Sharks							0.07		0.07		
Sum Rays							0.03		0.03		
Sum Squids											
Sum											
Sum shrimps (excl. SHKAAU1)							0.04		0.04		
Number of stations included in analysis, total and by depth strata							1		1		

Survey assignment DR. FRIDTJOF NANSEN
February 1975 to December 1987

Period	Assignment	Period	Assignment
FEB 1975– NOV 1976	NW ARABIAN SEA	APR–DEC 1981	WEST-AFRICA
JAN–JUN 1977	PAKISTAN	DEC 1981– APR 1982	WEST-AFRICA
AUG 1977– JUN 1978	MOZAMBIQUE	JUN 1982	TANZANIA
JUL 1978	SEYCHELLES	AUG 1982	KENYA
AUG–SEP 1978	SRI LANKA	SEP–OCT 1982	MOCAMBIQUE
APR–JUN 1979	SRI LANKA	NOV–DEC 1982	TANZANIA
JUL–AUG 1979	OMAN AND ADEN GULFS	FEB–MAR 1983	GULF OF OMAN/ PAKISTAN
SEP–NOV 1979	BURMA	MAY–JUN 1983	KENYA/TANZANIA/ MOCAMBIQUE/ MADAGASCAR
NOV–DEC 1979	BANGLADESH	AUG–SEP 1983	MALDIVES/PAKISTAN/ IRAN
JAN–FEB 1980	SRI LANKA	NOV–DEC 1983	GULF OF OMAN/ OMAN EEZ
MAR–APR 1980	BURMA	JAN–MAR 1984	PAKISTAN/S.YEMEN/ SOMALIA/ETHIOPIA
MAY 1980	BANGLADESH	APR–JUN 1984	OMAN/IRAN/PAKISTAN
JUN–AUG 1980	MALAYSIA/THAILAND/ INDONESIA	AUG–SEP 1984	S.YEMEN/SOMALIA/OMAN
SEP–NOV 1980	MOZAMBIQUE	MAR–DEC 1985	CONGO/GABON
DEC 1980	KENYA	JAN 1985– JUN 1986	ANGOLA
JAN–FEB 1981	OMAN AND ADEN GULFS	AUG–DEC 1986	WEST-AFRICA
MAR 1981	EGYPT	FEB–DEC 1987	CENTRAL-AMERICA
MAR 1981	TUNIS		
APR 1981	ALGIER		